Tennessee Technological University

2026-2027 Undergraduate Catalog

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Welcome from the President

Congratulations and welcome to Tennessee Tech. You will learn to be bold, fearless, and confident as you make the transformative journey through your college career. Here, you will be able to take your individual set of talents and goals and find out how Tech can best guide you as you create your individual success story.

Your journey will be tailored to you, and dedicated faculty, staff and administrators will support you. Plus, students and graduates often say they connected to a genuine student community.

No matter what you choose as a major and a career, our goal is for you to graduate with the ability to use technology to its fullest and to collaborate with people from other disciplines and diverse backgrounds. TTU is graduating students in record numbers as one of the most affordable, accessible institutions in the country producing career-ready graduates.

Your success is the focus of our Vision Statement:

Tennessee Tech will achieve national prominence and impact through its engaged students, dedicated faculty, and career-ready graduates known for their creativity, tenacity, and analytical approach to problem solving.

We are ready to help you reach your goals and to have a memorable experience. I am glad you chose to become a Golden Eagle.

Sincerely,

Philip B. Oldham
President

Accreditation and Memberships

Tennessee Tech University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate, master's, educational specialist, and doctoral degrees. Tennessee Tech University also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Tennessee Tech University may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (**www.sacscoc.org**).

SACSCOC INFORMATION

Program Accreditation

In addition to the institutional accreditation, many of Tennessee Tech's programs are accredited by specialized professional accrediting agencies. These nationally recognized programmatic accrediting agencies include:

- Association to Advance Collegiate Schools of Business (AACSB International)
- American Association of Family & Consumer Sciences (AAFCS)
- American Chemical Society (ACS)
- Accreditation Council for Education in Nutrition and Dietetics (ACEND)
- Commission on Collegiate Nursing Education (CCNE)(**www.ccneaccreditation.org**).
- Computing Accreditation Commission of ABET, **www.abet.org**
- Council for Accreditation of Counseling and Related Educational Programs (CACREP)
- Council for the Accreditation of Educator Preparation (CAEP)

- Engineering Accreditation Commission of ABET, **www.abet.org**
- Engineering Technology Accreditation Commission of ABET, **www.abet.org**
- National Association of Schools of Art and Design (NASAD)
- National Association of Schools of Music (NASM)

Memberships

- American Association of Colleges of Nursing
- American Association of Colleges of Teacher Education
- American Association of State Colleges and University
- American Council on Education
- Council of Graduate Schools
- Higher Education Unit - American Association of Family and Consumer Sciences
- Ohio Valley Conference
- Oak Ridge Associated Universities
- North American Colleges and Teachers of Agriculture
- Putnam County Chamber of Commerce
- Southern Association of Colleges and Schools
- Teacher Education Council of State Colleges and Universities
- Tennessee College Association

Directory Information

Tennessee Tech University
1000 N. Dixie Ave.
Cookeville, TN 38501

Admissions	**Financial Aid**
Office of Admissions	Office of Financial Aid
Tennessee Technological University	Tennessee Technological University
Campus Box 5006	Campus Box 5076
Cookeville, TN 38505-0001	Cookeville, TN 38505-0001
(931) 372-3888	(931) 372-3073 or 1-800-268-0236
	Fax (931) 372-6309
admissions@tntech.edu	financialaid@tntech.edu

Records, Registration, & Graduation	**Residential Life**
Office of Records, Registration, & Graduation	Office of Residential Life
Tennessee Technological University	Tennessee Technological University
Campus Box 5026	Campus Box 5016
Cookeville, TN 38505-0001	Cookeville, TN 38505-0001
(931) 372-3317	(931) 372-3414 or 1-800-268-0240
Fax (931) 372-6111	Fax (931) 372-3772
registrar@tntech.edu	reslife@tntech.edu

Dean of Students	**Student Affairs**
Dean of Students Office	Office of Student Affairs
Tennessee Technological University	Tennessee Technological University
Campus Box 5156	Campus Box 5145
Cookeville, TN 38505-0001	Cookeville, TN 38505-0001
(931) 372-3123	(931) 372-3411
deanofstudents@tntech.edu	studentaffairs@tntech.edu

Academic Offices			
Provost and Vice-President for Academic Affairs			(931) 372-3224
College of Agriculture & Human Ecology			(931) 372-3149
College of Arts & Sciences			(931) 372-3118
		Student Success Center	(931) 372-3610
College of Business			(931) 372-3372
		Student Success Center	(931) 372-3371
College of Education & Human Sciences			(931) 372-3124
		Student Success Center	(931) 372-6036
College of Engineering			(931) 372-3172
		Student Success Center	(931) 372-3553
College of Fine Arts			(931) 372-3016
		Student Success Center	(931) 372-6394
College of Interdisciplinary Studies			(931) 372-3366
		Student Success Center	(931) 372-6238
Whitson-Hester School of Nursing			(931) 372-3203
		Student Success Center	(931) 372-3203
Launchpad Student Success Center			(931) 372-6798
Extended Programs and Regional Development			(931) 372-3394
College of Graduate Studies			(931) 372-3233
International Education			(931) 372-3634
Volpe Library			(931) 372-3326

Directory assistance for other offices is available at (931) 372-3101. The University's web site address is: **www.tntech.edu**.

Tennessee Technological University is a part of the State University and Community College System of Tennessee. TTU Does not discriminate on the basis of race, sex, sexual orientation, gender identity/expression, disability, age, status as a protected veteran, genetic information, or any other legally protected class. For inquiries regarding non-discrimination policies, contact equity@tntech.edu.

TTU /An EEO/AA/Title IX/Section 504/ADA Employer

Policies and Notices

The Tennessee Technological University community (Faculty, Staff and Students) complies with the policies and penalties relative to controlled substances (illicit drugs) and alcohol, as required by the Drug Free Workplace Act of 1988 and the Drug Free Schools and Communities Act Amendments of 1989. As an employee and/or student at Tennessee Technological University, you are required to be knowledgeable of and comply with the Drug Free Campus/Workplace Policy, the applicable provisions of which are summarized below: It is the policy of this institution that the unlawful manufacture, distribution, possession, use or abuse of alcohol and/or illicit drugs on the Tennessee Technological University campus or on property owned or controlled by the University is strictly prohibited. All categories of employees and students are subject to this policy and to applicable federal, state and local laws related to this matter. Additionally, any violation of this policy will result in disciplinary actions as set forth in the applicable sections of this policy.

Policies and Notices

Inclement Weather Policy

All Tennessee Technological University offices will remain in operation during inclement weather to ensure continuity of services and to meet the needs of our students. In extreme weather conditions, classes and exams on campus and at off-campus locations may be rescheduled or cancelled while the university is open.

Faculty, administrators and staff of Tennessee Tech are expected to make every reasonable effort to be at their work assignment on time, taking into consideration the personal risk involved. Administrators or staff employees who anticipate arriving late, or not arriving at work at all, should notify their immediate supervisor of this fact as soon as possible and request annual leave for the period of absence. If faculty members must be absent from assigned classes due to inclement weather, it is their responsibility to notify the appropriate chairperson and/or dean.

Off-Campus Classes

28.1.2 The decision to cancel off-campus classes will be made by the Vice President for Academic Affairs in close consultation with the Vice President of Extended Programs and Regional Development and the coordinators of the off-campus centers. The information will then be disseminated by the coordinators as quickly as possible by whatever means are available in the vicinity of the affected center.

Academic Work

If classes are canceled due to inclement weather, missed classes should be made up in a manner chosen by the individual faculty member involved. If classes are not cancelled despite inclement weather, students are responsible for any academic work they miss as a result of inclement weather. It is the individual student's responsibility to take the initiative in making up any missed work, including but not limited to examinations, presentations and projects, and it is the faculty member's responsibility to provide the student with a reasonable opportunity to make up missed work, including but not limited to examinations, presentations and projects.

Delays & Early Closings

The President of the University may choose a delayed opening or early closing.

In the event of the delayed opening, all faculty and staff are expected to report to their specific work location by the set opening time. Students are expected to report to regularly scheduled class only if there are 30 or more minutes remaining in the session. (Ex.: If the delayed opening is set for 10 a.m., students who have classes from 9:30 to 10:50 should report to that class at 10 a.m.). All classes scheduled prior to the delayed opening time and those that have less than 30 minutes remaining after the set opening time are cancelled for the day.

When time is announced for an early closing, it applies to all classes that begin on or after that hour. Ex. "Classes cancelled at 3 p.m." means all classes starting at 3 p.m. or later are cancelled. Classes that started before 3 p.m. will meet.

Procedures for Canceling Classes

In those instances when weather conditions require a decision by the President of the University to authorize canceling classes, delaying the start of classes or suspending selected activities, the following procedures will be in effect:

28.2.1 The Director of Facilities and Business Services and Director of Safety and Environmental Services will monitor official weather reports, contact appropriate state, county and local Public Safety Officials and check local roads for hazardous driving conditions. They will review campus roads, walkways and parking lot conditions. The Director of Facilities and Business Services will advise the Vice President for Business and Fiscal Affairs of the findings. After receiving this information, the Vice President for Business and Fiscal Affairs will inform the Vice President for Academic Affairs, who will consult with the other vice presidents and recommend to the President whether the University should cancel classes or declare an emergency closing. If the Vice President for Business and Fiscal Affairs is unavailable, the Director of Facilities and Business Services and Director of Safety and Environmental Services will contact the Vice President for Academic Affairs.

Once the decision is made to cancel classes or close offices and facilities or buildings on campus or at extended education sites, the President or Vice President for Academic Affairs will notify:

- Associate Vice President for Communications & Marketing (or representative of that office)
- TTU Police
- University Vice Presidents (Each University Vice President will be responsible for notifying the appropriate personnel in the division).

The Office of Communications & Marketing will prepare an official statement and notify the campus community and public through the following ways:

- University website homepage
- Broadcast e-mail to students, faculty and staff
- Text alert (written by OCM, distributed by University Police)
- Facebook and other social media
- Switchboard operator
- Local media (including Channel 7)
- Metro Nashville network TV stations and select radio stations
- Upper Cumberland Radio
- Campus media (Oracle/WTTU)
- Metro Knoxville network TV stations and select radio stations

No notice will be sent to media if the University continues to operate on a normal schedule. (The University homepage and social media may be used to communicate to students, parents, faculty, staff and administrators that a normal schedule will be followed).

https://www.tntech.edu/safety/inclement-weather.php

Policies and Notices

Judiciary Procedures

Judiciary procedures at the University do not constitute legal actions, and the decisions are not to be equated with verdicts reached by courts of law. These procedures simply involve the fact-finding and decision-making processes of an educational institution.

Detailed procedures for the disciplinary system are printed in the “Disciplinary System Manual.” Copies of the manual are located in the Dean of Students Office.

Policies and Notices

Medical Insurance

Health and accident insurance is available to each student upon his/her registration at Tennessee Tech. Students may choose health insurance options that the TBR has made available at the following website: www.TBRstudentHIX.com. This website explains the meaning of various terms, plans, and coverage types. Additionally, the website presents students with multiple plans that comply with the coverage requirements of the Affordable Care Act (ACA), including plan s offered through the ACA “exchange” (where tax credits may be available to offset the cost of coverage) and plans offered “off exchange” (where tax credits are not available). Students can view a plan summary/brochure on-line for any plan contained in the website. If a plan is selected, the website permits students to complete the enrollment process on-line. There is also a toll free call center to assist with questions about the insurance coverages offered.

All students are strongly encouraged to maintain health insurance coverage while in school. Health insurance encourages students to seek earlier intervention for their health issues and provides protection from a potentially overwhelming financial burden.

Policies and Notices

Motor Vehicles

All students are permitted to maintain vehicles on the campus, subject to the approval of the University. Registration of motor vehicles is required beginning with the fall semester and continuing throughout the entire year. All vehicles operated on campus by full-time, part-time, or night-time students must be registered. Vehicles will be issued permits for specific parking areas, and compliance with all rules and regulations is required. Parking restrictions are effective in parking lots from 7:45 a.m. until 4:30 p.m., Monday through Friday each day that university offices are officially open, except east dorms where 60-minute parking is in effect daily from 7:30 AM until midnight. For information regarding University Police and Parking and Traffic Regulations, refer to the TTU police website at **www.tntech.edu/police**.

Policies and Notices

Official Notice

University Notice

The course offerings and requirements of the institution are continually under examination and revision. This catalog presents the offerings and requirements in effect at the time of publication, but is no guarantee that they will not be changed or revoked. However, adequate and reasonable notice will be given to students affected by any changes. This catalog is not intended to state contractual terms and does not constitute a contract between the student and the institution.

The institution reserves the right to make changes as required in course offerings, curricula, academic policies, and other rules and regulations affecting students to be effective whenever determined by the institution. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions.

Current information may be obtained from the following sources:

- Admission Requirements – Undergraduate Admissions
- Course Offerings – Department or Division Offering Course
- Degree Requirements – Departmental Chairperson of Major
- Fees and Tuition – Bursar Office

The University provides the opportunity for students to increase their knowledge by providing programs of instruction in the various disciplines and programs through faculty who, in the opinion of the University, are qualified for teaching at the college level. The acquisition and retention of knowledge by any student is, however, contingent upon the student's desire and ability to learn and his or her application of appropriate study techniques to any course or program. Thus, the University must necessarily limit representation of student preparedness in any field of study to that competency demonstrated at that specific point in time at which appropriate academic measurements were taken to certify course or program completion. Any or all students may be required to take one (1) or more tests designed to measure general education achievement and/or achievement in selected major areas as a prerequisite to graduation for the purpose of valuation of academic programs. Unless otherwise provided for any individual program, no minimum score or level of achievement is required for graduation. Participation in testing and other evaluation measures are required for all students and for students in selected programs. In order to comply fully with this provision, the student must authorize the release of his or her scores to the institution. Individual student scores will be treated as confidential.

Tennessee Tech University is an Equal Opportunity/Affirmative Action institution and is in compliance with Titles VI and VII of the Civil Rights Act of 1974, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1974, the Rehabilitation Act of 1973, the Vietnam Era Veterans Readjustment Act of 1974, and the Americans With Disabilities Act of 1990. The University is nondiscriminatory on the basis of age, race, color, religion, sex, national origin, disability status, or status as a disabled veteran or veteran of the Vietnam era. Inquiries or complaints concerning these policies should be directed to the Affirmative Action Officer, Derryberry Hall, Room 314D, (931) 372-3016.

Faculty members will endeavor to make necessary accommodations for disabled persons in their courses. The Office of Disability Services is available to assist the faculty to make necessary special arrangements for disabled students. This Office should be contacted as early as possible by a student regarding assistance that may be needed for attendance at the University.

Notice of Catalog Changes

The course offerings and requirements of the institution are continually under examination and revision. This catalog is not intended to state contractual terms and does not constitute a contract between the student and the institution.

The institution reserves the right to make changes as required in course offerings, curricula, academic policies, and other rules and regulations affecting students to be effective whenever determined by the institution. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions.

A notice to report to any administrative office of the University takes precedence over all non-instructional activities, and must be answered immediately or, if received during a class, as soon as the class is over. Failure to respond to such a notice will require satisfactory explanation to the Administrative Council before the student is allowed to continue in residence.

Policies and Notices

Privacy Rights

On May 20, 1975, Tennessee Tech approved a statement of policy that includes provisions for the release of information about students and the rights of students and others to have access to Tech's education records. The complete policy statement of "Privacy Rights of Students" is available on the website of the Office of the Registrar. Additionally, students are sent an annual notice of their Privacy Rights to their TTU student email. For more information, please visit the Registrar's Office webpage.

Policies and Notices

Student Complaint Procedures

Whenever possible, students are encouraged to seek an informal resolution of the matter directly with the faculty or other individual(s) involved. However, if an informal approach is neither successful nor advisable, the student may file a formal written complaint. You may review the complete policy document by visiting Policy Central - 301 TTU Student Complaint.

1.	A student complaint form should be submitted "online" to the Assistant Vice President for Student Affairs.	
	a.	It should contain (at a minimum) the student's name and official TTU email address, the date of the alleged conflict or action, a summary of the complaint, a list of other persons who may provide information and any appropriate documentation. The student must also include the resolution or outcome he or she is seeking.
	b.	If a student wishes to submit a complaint anonymously, just type "Anonymous" in the name section and any other section that may identify you. *The resolution of a complaint submitted anonymously might be difficult to achieve. However, at least the student was able to notify the University of the situation while maintaining privacy. The complaint must be submitted within ten (10) business days of the event giving rise to the complaint.
2.	Within five (5) business days of receiving the complaint, absent good cause, a conference will take place with the student and a staff member from the Assistant Vice President for Student Affairs office.	
3.	The student must submit all relevant documentation within ten (10) business days of the date the student files the complaint.	
4.	The staff member will notify appropriate persons and request any information or further documentation needed to resolve the complaint.	
5.	The staff member may attempt to resolve the complaint by encouraging discussion between the student(s) and other students or third party members of the university community, or by taking the appropriate action to resolve the complaint.	
6.	A review of the complaint with the supervisor(s) or others in the line of supervision of third parties, if applicable, may be used when deemed appropriate and beneficial to the process.	
7.	Absent good cause, the staff member assigned to the complaint will file a final written resolution or a finding of "unresolved" in the Assistant Vice President for Student Affairs office within fifteen (15) business days of the date the student submits the relevant documentation. If there are circumstances requiring an extension of this deadline, the staff member assigned to the complaint will notify the parties involved.	
8.	If the student is not satisfied with the outcome of the complaint, the student may appeal the outcome within five (5) business days of receiving the final written resolution or finding of "unresolved." The student must file with the Assistant Vice President for Student Affairs a written request for an appeal committee review.	
9.	The appeal committee will consist of five representatives who will serve a one-year term. These representatives will comprise: two student members appointed by the SGA president; one member appointed by the Vice President for Academic Affairs; one member appointed by the Vice President for Student Affairs; one member appointed by the Vice President for Planning and Finance.	
10.	Absent good cause, the appeal committee will issue a final written decision within twenty (20) business days of the date the student submits an appeal. If there are circumstances requiring an extension of this deadline, the chair of the committee will notify the parties involved. The committee's decision will be final.	

Access the Student Complaint Form.

Policies and Notices

Use of Social Security Numbers

In accordance with the Privacy Act of 1974, applicants for admission and enrolled students are advised that the requested disclosure of their Social Security numbers is voluntary. Students are notified, however, that only the Social Security number may be used as an identifier for grants, loans, and other financial aid programs according to federal regulations. The student's Social Security number will not be disclosed to individuals or agencies outside Tennessee Technological University except in accordance with the institutional policy on student records.

Administration & Faculty

Academic and Administrative Officers

Deans, Chairs, and Directors

2026-2027 Faculty Directory

Tennessee Technological University Board of Trustees

The Board of Trustees is the governing body of Tennessee Tech University. It consists of 10 members, 8 of whom are appointed by the governor, by and with consent of the Tennessee General Assembly. In addition, the Faculty Senate elects a faculty member to serve as a trustee, and the Student Government Association presents three students to the board for selection as the student trustee.

The board meets four times a year at regularly scheduled meetings, and additional meetings as needed.

The Board of Trustees of Tennessee Tech University was established pursuant to 2016's FOCUS Act (2016 Tenn. Pub. Acts, ch. 869).

Presidents of the University

University Organization

Establishment and History

Chartered in 1915, Tennessee Tech opened its doors to students in 1916. Its academic programs began with basic humanities and sciences as foundation courses for three major areas of study: Agriculture, Home Economics and Mechanical Arts. The next year, students could enroll in Business as a major course of study as well. By 1918, military training had been added to the curriculum.

In 1938, all the major fields of study, as well as the foundation classes, were reorganized into two main divisions – Arts and Sciences, and Professional and Technical Subjects—housing eleven departments. Divisions were quickly renamed "schools" and, in 1949, the expansion of the curriculum had blossomed into five schools consisting of 24 departments.

Most of today's academic programs have their roots in one of those five schools, which were re-designated "colleges" when Tennessee Tech achieved university status in 1965.

Relative newcomers to Tennessee Tech academics include the Department of Military Science (1950), the Graduate School (1958), the School of Nursing (1980), the School of Interdisciplinary Studies and Extended Education (2001), the College of Interdisciplinary Studies (2012) which merged the freshly minted School of Professional Studies and School of Environmental Studies, and the new College of Fine Arts (2017).

Most degree programs at Tennessee Tech today are housed in nine colleges and one school; special programs include three centers of excellence, Honors, the Millard Oakley STEM Center and the Department of Military Science/Army Reserve Officer Training Corps (ROTC).

- History of Tech
- Mission and Vision

Campus

University Campus

Cookeville, Tennessee, the site of Tennessee Tech University, is located within a day's drive of about 75% of the nation's population via Interstate 40, Highway 70 North, and Highway 111. Cookeville is just 70 miles East of Nashville and 110 miles West of Knoxville, with Chattanooga 100 miles to the South. Major airline services are available through Nashville, Knoxville, and Chattanooga.

The City of Cookeville has a population of more than 26,000 residents and is located on the eastern Highland Rim of Tennessee at an elevation of 1,140 feet. Cookeville is the 'hub' of the 14-county Upper Cumberland region of about 317,000 citizens. The local public schools, civic clubs, and churches have a friendly and cooperative relationship with students, faculty, and patrons. The surrounding area, enhanced by three major lakes, abounds in natural beauty and is served by several state park including Burgess Falls and Cummins Falls state parks. Cookeville is just minutes from top-rated golf courses, lakes, rivers, hiking, championship fishing, hunting, and an amazing variety of sports (including Tennessee Tech University's) and other activities.

The campus consists of a tract of 235 acres made attractive by building architecture, shrubbery, native trees, and a system of driveways and walkways; making travel to and from buildings to parking lots easy and convenient. A current map of the university may be found on the TTU website.

Campus

Accessibility

The Accessible Education Center is designed to assist students with disabilities in their educational development and vocational outcomes. The program provides direct assistance in appropriate classroom accommodations, creation and maintenance of an accessible physical environment, access to technology equipment, and encouragement of independence.

Students with disabilities are urged to come by the Accessible Education Center in Room 112, Roaden University Center, to discuss their educational plans and special needs. Documentation of a disability by professionals is necessary in determining the level of assistance that might be useful.

Campus

Air Force Reserve Officers Training Corps (AFROTC)

Currently there is no charge for tuition to take Air Force ROTC. The grade and credit can transfer back for graduation.

The Air Force Reserve Officer Training Corps (AFROTC) provides pre-commission training for college men and women who desire to serve as commissioned officers in the United States Air Force or Space Force. When combined with the academic disciplines offered at the college level, the program provides the student a broad-based knowledge of management, leadership, and technical skills required for a commission and subsequent active-duty service in the Air Force.

Graduates are commissioned as Second Lieutenants and will enter active duty. The main objectives of producing officers through the AFROTC program are (1) to procure officers with a broad educational base; (2) to provide a basic military education for college students; (3) to teach fundamentals and techniques of leadership, management, and decision making; and (4) to develop, in conjunction with other academic disciplines, individual character and attributes required of a commissioned officer in the United States Air Force.

Enrolling in AFROTC

For application deadlines go to www.tnstate.edu/afrotc. Students may participate in the Air Force ROTC program in cooperation with Tennessee State University. Call Detachment 790, (615) 963-5931/5979, for more information about applying. The program provides training and education that will develop skills and attitudes vital to the professional Air Force or Space Force officer. In this program students are eligible to compete for scholarships (3.0+ GPA) that cover the cost of tuition and textbooks and provide scholarship cadets with a monthly stipend.

Curriculum

The General Military Course (GMC) is 1 credit hour and is composed of the first four semesters of aerospace studies and is for freshmen and sophomores. The Professional Officer Course (POC) is 3 credit hours and constitutes the final four semesters of AFROTC study for juniors and seniors. Leadership Lab is a 1 credit hour lab that is required every year of AFROTC. Students who participate in Air Force ROTC are jointly enrolled as a TSU student and participate in Aerospace Studies (Air Force ROTC) at TSU. For more information, contact the unit admissions officer at (615) 963-5931/5979 or check our website at www.tnstate.edu/afrotc.

General Benefits

All students enrolled in the AFROTC program are provided textbooks and uniforms at no expense. Professional Officer Course (POC) students (juniors and seniors) and all scholarship students receive a tax-free monthly subsistence allowance.

Sponsored Activities

- **Professional Development Training** is provided during the summers to cadets interested in enhancing their knowledge of Air Force leadership and management opportunities, increasing their cultural awareness, and learning about specific career specialties.
- **AFROTC Flight Orientation Program** is designed to allow all cadets, regardless of intended career field, the chance to fly in Civil Air Patrol aircraft. Everyone can experience the joy of flight.

Aerospace Studies Courses

· **Freshman Year: AS 100 - Heritage and Values of the United States Air Force and Space Force** is a survey course designed to introduce students to the United States Air Force and Space Force. This class provides an overview of the role of military in U.S. society, military history, officership, professionalism, core values, career opportunities, and customs/courtesies. Freshman Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing followership experiences.

· **Sophomore Year**: **AS 200 - Team and Leadership Fundamentals** focuses on laying the foundation for teams and leadership. The topics include development/deployment of air power, leadership and quality principles, ethics and values, leadership development based on student participation in group problem solving, as well as oral/written communication development. The purpose of this course is to instill a leadership mindset and to motivate sophomore students to transition from an AFROTC cadet to AFROTC officer candidate. Sophomore Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing followership experiences.

· **Junior Year**: **AS 300 - Leading People and Effective Communication** teaches cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills and communication. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors. A mandatory junior year Leadership Laboratory provides advanced leadership experiences and the opportunity to apply the leadership and management principles of this course.

· **Senior Year: AS 400 - National Security Affairs/Preparation for Active Duty** is designed for college seniors and provides them with the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level. The final semester provides information that will prepare the cadets for Active Duty. A mandatory senior year Leadership Laboratory provides advanced leadership experiences and the opportunity to apply the leadership and management principles of this course.

Campus

Alumni Association

The purpose of the Alumni Association is to promote the educational, social, and economic interests of Tennessee Technological University, its faculty, friends, current students and alumni. Graduates of Tennessee Technological University are those who received a degree, as well as those students who were not degree-seeking but completed a Career Track (previously known as a pre-professional program), are recognized as alumni.

The Director of Alumni Relations oversees the activities of the Alumni Association. The work of the Association is administered through the Office of Alumni Relations in conjunction with the Association's Advisory Board. The Alumni Advisory Board consists of alumni representatives appointed by the Director of Alumni Relations and the current Advisory Board. The Board includes representatives from all six colleges and from the Upper Cumberland, Nashville, Knoxville, Tri-Cities, Atlanta, and Huntsville, Alabama areas. Class years of board members range from the early 50's thru the late 90's.

Campus

Career Development

The Center for Career Development, located on the third floor of the Roaden University Center, provides a variety of career resources for students and alumni. Freshmen and sophomores are encouraged to complete one or more career assessment programs to assist in determining their major course of study and to examine potential employment opportunities within various professions. Students will also want to explore our GOLD and PURPLE Career Readiness Programs. Freshman and Sophomores will find the GOLD program is best suited for their level of career development while Juniors and Seniors will find the PURPLE program more beneficial to their needs.

Full-time students who have reached sophomore status and have achieved a 2.0 overall GPA are eligible to participate in the Cooperative Education Program. Program participants obtain on-the-job learning experiences that can provide a realistic evaluation of a career choice along with giving them the opportunity to earn supplemental income to aid with college expenses. Please contact Sonja Higginbotham in the Center for Career Development for more details on Cooperative Education options.

Recognizing the benefits to be gained through the use of cutting-edge technology, Career Development maintains a full service web site at (www.tntech.edu/career) and leverages the Handshake system for job listings, job fair information, student resumes and employer contacts. Students, alumni, and employers may access information about campus recruiting activities via this website.

As the university's centralized recruiting facility, students looking to expand their employment opportunities should register with the office for assistance with their job search. This is especially important for seniors getting ready to transition into the world of work upon graduation. Advice and suggestions to maximize interviewing strategies and resume preparation are also provided. Registration is required for students and alumni to participate in on campus interview activities. Registration is free for all students and alumni.

Campus

Counseling Center

The Tennessee Tech Counseling Center provides a wide range of services designed to help students adjust to and succeed in the university environment. The Center's services include those intended to help students with educational, career, personal, and social concerns. Adjustment to college, stress management, interpersonal relationships, family issues, depression, anxiety, eating disorders, substance abuse, and self-esteem are among the various concerns that students discuss in counseling. In addition to individual counseling, the Center also offers group counseling, which provides students the opportunity to share and learn from others. Strict confidentiality is maintained in the counseling process.

The Counseling Center works with faculty, staff, and student groups within the university community to develop educational programs and projects. These outreach services include workshops that focus on specific issues such as relationships, stress management, test anxiety, study skills, and an array of other topics relevant to the university experience. The Counseling Center also administers a number of standardized tests including ACT, CLEP, MAT, and GRE (subject exam only).

The Counseling Center is located at 307 Roaden University Center. The phone number is (931) 372- 3331. Students can call the Counseling Center or check the Center's web site at **www.tntech.edu/counsel/** for information regarding walk-in hours, scheduling appointments, workshops, or available groups.

Campus

Dean of Students

The purpose of the Dean of Students Office is to provide services and programs that enrich the quality of student life and that enhance and compliment the academic mission of Tennessee Technological University by:

- Providing leadership and administrative direction to the Office of Student Activities and Campus Life, and the Office of Judicial Affairs.
- Helping establish and enforce the community standards of the University.
- Responding to the concerns of students, faculty, staff, parents and the community pertaining to student life at the University.

The Dean of Students Office would be the best office for students to visit and receive personalized attention for any concerns they may have at the University.

Campus

Eagle Card

Each student receives the first Eagle Card (official TTU ID) free of charge. Eagle Cards may be replaced for a $10 fee.

Eagle Cards are used to access Residential Life halls, the Fitness Center, and many labs and classrooms. Cards are encoded with meal plans and flex dollars (if purchased). Money may be deposited to use as a debit system in the following areas: University Bookstore, The CAF, Starbucks, Chic-Fil-A (Swoops), Steak n Shake (Swoops), The Market (Swoops), The Market (Maddux/McCord Hall), The Market (The Perch), Papa Johns (Maddux/McCord Hall), Which Wich, Au Bon Pain (Volpe Library), and the Business Office.

The ID is also used for admission to student activities, athletic events, etc. Students must present this card upon request from any college official or be subject to disciplinary action.

Campus

Health Services

Tennessee Technological University has a student health service which provides medical services for minor illnesses or injuries for any student enrolled at the University on an appointment basis during hours of operation. The health service staff includes nurses, nurse practitioner, physician, and pharmacist who plan and implement care for students during daytime hours Monday through Friday. Students are responsible for charges due to supplies, laboratory testing, treatments, and medications.

The student is responsible for expenses incurred for ambulance service, calls at a local physician's office, emergency services, and other services provided at Cookeville Regional Medical Center.

Prior to registration all students must fill out the Meningitis/Hepatitis B form https://www.tntech.edu/healthservices/pdf/Meningitis_Hepatitis_Form.pdf and the Tuberculosis (TB) Screening form https://www.tntech.edu/healthservices/pdf/Tuberculosis_Screening_Form.pdf

You are required to submit an immunization health history form and/or official record of immunization prior to enrolling. These are:

Full-Time Registration Requirement: Students must provide proof of **two (2) MMR (measles, mumps, and rubella) vaccinations**. Proof of immunity to measles, mumps, and rubella may be provided by meeting one of the following 3 criteria:

- Date of birth before 1957, or
- Documentation of 2 doses vaccine against measles, mumps, and rubella given at least 28 days apart, excluding doses given earlier than 4 days before the first birthday, or
- Documentation of blood test (titer-serology) showing immunity to measles, mumps, and rubella. If any one of the three is negative, proof of 2 doses of vaccine must be provided to Health Services.

Students must also provide proof of **two (2) Varicella (chicken pox) vaccinations**. Proof of immunity to chickenpox is required by meeting one of the following 4 criteria:

- Date of birth before 1980, or
- History of chickenpox illness diagnosed by a healthcare provider or verified by a physician, advanced practice nurse or physician assistant to whom the illness is described, or
- Documentation of 2 doses of Varicella vaccine given at least 28 days apart, excluding doses given earlier than 4 day before the first birthday, or
- Documentation of blood-test (titer-serology) showing immunity to Varicella.

All new incoming students living in on campus housing, under the age of 22, must submit proof of adequate immunization. Adequate proof consists of documentation from a healthcare provider showing a single dose of **Meningitis** (conjugate vaccine MCV4) given **on or after the 16th birthday**. Students living in on-campus housing are at increased risk for infection.

Campus

Honors

Undergraduate Honors. The honor roll for each semester shall be known as the “Dean’s List.” To receive this honor a student shall be a full-time (12 semester hours Fall and Spring or 8 semester hours Summer), regular undergraduate, having a semester’s grade average of 3.1 or higher.

Commencement Honors for baccalaureate degrees shall include:

	cum laude	3.5 quality point average
	magna cum laude	3.7 quality point average
	summa cum laude	3.9 quality point average

In determining commencement honors, transfer students shall receive full value for grades and credits providing that the transferring institution is regionally accredited.

Honors Program

Tennessee Technological University provides a full Honors Program to stimulate the academically gifted student to achieve his or her full potential. Admission is limited to students with a 3.5 or better cumulative quality point average, or who do exceptionally well on entrance examinations. Those students who complete Honors Program requirements for graduation have “*in cursu honorum*” inscribed on their diplomas and transcripts and are so designated on the graduation program.

Honor Societies

Tennessee Technological University recognizes scholarly achievement and encourages student excellence and participation in a large number of academic organizations. Honor societies in specific areas include:

- Alpha Kappa Delta (Sociology)
- Alpha Lambda Delta (Freshmen)
- Alpha Mu Gamma (Foreign Languages)
- Alpha Pi Mu (Industrial Engineering)
- Alpha Psi Omega (Theatre)
- Alpha Sigma Lambda (Adult Undergraduate Students)
- Associated Scholars Guild (Honors Program)
- Beta Alpha Psi (Accounting)
- Beta Beta Beta (Biology)
- Beta Gamma Sigma (Business)
- Chi Epsilon (Civil Engineering)
- Delta Tau Alpha (Agriculture)
- Epsilon Pi Tau (Industrial Technology)
- Eta Kappa Nu (Electrical and Computer Engineering)
- Financial Management Association National Honor Society (Finance)
- Kappa Delta Pi (Education)
- Kappa Mu Epsilon (Mathematics)
- Kappa Omicron Nu (Human Ecology)
- Mortar Board (Interdisciplinary)
- Omicron Delta Epsilon (Economics)
- Omicron Delta Kappa (Interdisciplinary)
- Phi Alpha Theta (History)
- Phi Delta Kappa (Education)
- Phi Kappa Phi (Interdisciplinary)
- Pi Kappa Delta (Public Speaking)
- Pi Kappa Lambda (Music)
- Pi Lambda Theta (Education)
- Pi Sigma Alpha (Political Science)
- Pi Tau Sigma (Mechanical Engineering)
- Psi Chi (Psychology)
- Scabbard and Blade (Army ROTC)
- Sigma Iota Epsilon (Business Management)
- Sigma Pi Sigma (Physics)

- Sigma Tau Delta (English)
- Sigma Theta Tau International (Nursing)
- Society for Collegiate Journalists (Journalism)
- Tau Beta Pi (Engineering)

Campus

Intercollegiate Athletics

The office of the Director of Athletics is located at the Hooper Eblen Center, the arena where many intercollegiate athletic contests occur. Tennessee Tech is a member of the National Collegiate Athletic Association (NCAA) and the Ohio Valley Conference (OVC). We participate at the NCAA Division I level in fifteen sports and in the NCAA Football Championship Subdivision in football. Tennessee Tech sponsors nine women's intercollegiate athletic teams (basketball, cross country, indoor & outdoor track, golf, soccer, softball, tennis, and volleyball), six men's teams (baseball, basketball, cross country, football, golf, and tennis), and one co-ed team (rifle). In addition to intercollegiate sports contests, concerts and other entertainment are occasionally hosted by the Department of Athletics.

In order to participate in varsity athletics, student athletes must satisfy all academic requirements of the University and must make satisfactory progress toward their degrees, as specified by the NCAA and OVC. The policies and activities of the varsity teams are regulated by the Tennessee Tech Athletics Committee, which is composed of students, faculty, and administrative staff. Intercollegiate varsity athletic interests are promoted by the Tennessee Tech Athletic Association.

Each fulltime student receives complimentary admission to all regularly scheduled intercollegiate athletic home games. Since 1925, Tech athletic teams have been nicknamed the "Golden Eagles."

Campus

International Education

The TTU Office of International Education is responsible for international undergraduate admissions and provides international students and scholars with immigration services and community programming. In addition, the office staff coordinate study abroad programs for all TTU students.

Campus

Launchpad

The Launchpad Student Success Center is one location that focuses on first-year student advising, transition, career-readiness, and success with an additional emphasis on also assisting any undecided/undeclared student with career and major exploration and selection.

Our Center and team are trained to identify and provide students with access to tools and resources on and off campus to help them in their transition to academic and college life at Tennessee Tech. Additionally, we partner with faculty to identify concerns with first-year students' academic success, course attendance and participation, and well-being to intervene early and often to help keep students on track to graduate.

The Launchpad Student Success Center is student-focused and welcomes all first-year, undecided students, and those students interested in health sciences, engineering, and nursing. We foster positive professional relationships between students, advisors, faculty, and staff; encourage academic exploration; and empower students to take ownership of their educational experiences.

We work collaboratively with all members of the campus community to ensure each student has a smooth transition and the direction needed to meet their goals.

Campus

Military & Veterans Affairs

Each year the Professor of Military Science, with the concurrence of the President of the University, is authorized to designate outstanding students of the Army ROTC Advanced Course as Distinguished Military Students. Selection of the students is based on aptitude for military service, high academic accomplishments, leadership ability, and moral character.

Service members, Veterans, and dependents of veterans who are eligible beneficiaries of U.S. Department of Veterans Affairs education benefits or other governmentally funded educational assistance, subject to the conditions and guidelines set forth in Tennessee Code Annotated 49-7-104 as amended, may elect, upon formal application, to defer payment of required tuition and fees until the final day of the term for which the deferment has been requested. Application for the deferment must be made no later than 14 days after the beginning of the term. Students who have been granted deferments are expected to make timely payments on their outstanding tuition and fees balance once education benefits are being delivered. Eligibility for such deferment shall terminate if the student fails to abide by any applicable rule or regulation, or to act in good faith in making timely payments. This notice is published pursuant to Public Chapter 279, Acts of 2003, effective July 1, 2003.

- Apply for VA Educational Benefits online at: https://www.vets.gov/education/apply/
- Review procedures to utilize VA Educational benefits at: https://www.tntech.edu/em/military-and-veterans-affairs/

Once you have submitted your VA application online, please provide a copy of the confirmation page (this page appears once application has been submitted), your DD214 Member 4, and proof of Kicker (if applicable) to the Office of Military and Veteran Affairs, room 312 Jere Whitson Building. A copy of your Certificate of Eligibility from U.S. Department of Veterans Affairs must also be submitted (this usually is delivered via regular mail within 3-5 weeks from date that application is submitted. Contact the Office of Military and Veteran Affairs for additional information. veterans@tntech.edu

Veterans Administration General Guidelines:

- VA will only pay for courses required in the degree you are seeking as listed in the university catalog degree requirements.
- You must have at least 12 hours of required courses in your major to get full veterans educational benefits. Students can take less than 12 hours but any monthly stipends would be reduced.
- VA will only pay for repeating courses with failing grades, unless the TTU catalog specifically states that a certain grade is required. Also, VA will not pay for a course if you have received equivalent course credit for that course from another institution.
- VA will not pay for auditing a course.
- You must attend your classes in order to receive Veterans Educational Benefits. If you stop attending a class, the instructor will report your last date of attendance. The Office of Military and Veteran Affairs will report that date to the VA. VA will adjust your benefits accordingly.

Any covered individual will be able to attend or participate in the course of education during the period beginning on the date on which the individual provides to the educational institution a certificate of eligibility for entitlement to educational assistance under chapter 31 or 33 (a "certificate of eligibility" can also include a "Statement of Benefits" obtained from the Department of Veterans Affairs' (VA) website – eBenefits, or a VAF 28-1905 form for chapter 31 authorization purposes) and ending on the earlier of the following dates:

1. *The date on which payment from VA is made to the institution.*
2. *90 days after the date the institution certified tuition and fees following the receipt of the certificate of eligibility.*

Tennessee Tech University will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement funding from VA under chapter 31 or 33.

"GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA)".

Campus

Minority Affairs

The Office of Minority Affairs provides personal, cultural, social and academic growth for students of color. We provide opportunities for all students of color to learn about their history, take pride in their heritage and explore their potential. We promote cultural awareness by providing an environment that embraces diversity. We serve as a cultural resource to the campus and the community through our programming and outreach programs.

Our office provides programs designed to encourage cultural awareness, as well as, educational opportunities outside the classroom. In addition, we provide tutoring, academic counseling and information on scholarships and internships.

Minority Affairs is located in the Leona Lusk Officer Black Cultural Center, which houses a computer lab, conference room and a library of African-American authors. It is a great place to meet new friends and become involved with student organizations.

Campus

New Student & Family Programs

The Office of New Student & Family Programs at Tennessee Tech oversees orientation and transition programs for new students and their families. Our office supports the transition of new students and families by bridging gaps between high school, community colleges, and Tech. Our staff is here to provide assistance and information to students and their families to establish a foundation for success. Please contact us with any questions you may have regarding orientation, the first-year experience, or our parent and family programs.

We are committed to serving students and families by:

- Providing programs and services to assist the transition of new students into the intellectual, cultural, and social climate of Tennessee Tech.
- Exposing new students to the University's educational and extracurricular opportunities in order to foster personal growth.
- Educating and establishing partnerships with parent and family members to support students' academic and personal success.

Campus

Student Activities

Students are encouraged to participate in those extracurricular activities which afford opportunities for the development of individual initiative or group leadership and cooperation. For the purpose of eligibility for participation in institutionally sponsored extracurricular activities, all students are considered to be in good academic standing as long as they achieve sufficient qualitative and quantitative academic progress to allow them to remain enrolled in the institution. (For additional information, see the Academic Retention Table.) Individual organizations or activities within the institution may have additional requirements for participation.

The Student Government Association (SGA). SGA is composed of all full-time undergraduate and graduate students enrolled at Tennessee Tech. Student Government is composed of executive, legislative, and judicial branches. The purposes of the SGA as stated in the constitution are: to promote student participation in the affairs of the University; to serve as a channel for the expression of student opinion; to support student activities on this campus; and to encourage the development of student responsibility, character, leadership, and citizenship.

Campus Recreation. The office of Campus Recreation is designed to offer students an opportunity for wholesome and enjoyable recreation, for physical fitness, and for developing skills that have carryover values. The office of Campus Recreation is located in the Fitness Center facility across from the Hooper Eblen Center. The Fitness Center provides students the opportunity to meet their personal health and fitness needs. Health Promotions Programs provides free fitness evaluations and assistance with meeting fitness goals. Outdoor Adventure Programs coordinates outings for camping, hiking, rafting and more as well as offering rental of camping equipment. Intramurals offers a variety of sports for both men and women. For information on any of these programs, call 372-6212.

Campus Religious Life. The student religious organizations serve students through organized activities and events such as Bible study, worship services, coffee house discussions, dramatic productions, folk masses, choir concerts, evening devotionals, student retreats, social issue symposiums, and social activities. Some of these groups have student centers near the campus and invite all students to participate in the programs and events planned and carried out by the students.

Eagle. The student yearbook is edited by students. It is a CD summarizing the highlights of student activities each year.

Fraternities. Thirteen social fraternities are presently active on campus: Alpha Gamma Sigma, Alpha Phi Alpha, Kappa Alpha, Kappa Sigma, Omega Psi Phi, Phi Beta Sigma, Phi Delta Theta, Phi Gamma Delta, Pi Kappa Alpha, Sigma Alpha Epsilon, Sigma Chi and Sigma Phi Epsilon, Tau Kappa Epsilon.

Homespun. Published annually by the English Department, *Homespun*, contains poetry, fiction, drama, essays, photography, and art by students and faculty. Staff members also gain practical experience in magazine layout and design.

Music Organizations. Students are encouraged to participate in the University music organizations. Credit is offered for participation in groups which are organized as classes (see course descriptions). Some of the major organizations are the Bryan Symphony Orchestra, University Orchestra, Concert Choir, Tech Chorale, Mastersingers, University Wind Ensemble, Symphony Band, Concert Band, Tech Troubadours and Trouveres, Tennessee Tech Golden Eagle Marching Band, Varsity Pep Band, and Golden Eagle Brass.

The Oracle. *The Oracle* is a weekly newspaper edited by students. This paper contains news items and articles pertaining to the activities of students, faculty, and alumni.

Residence Halls Association. The Tech Residence Halls Association, known as RHA, is the governing body for all students living in residence halls at Tennessee Tech. The purposes of the RHA are to work primarily for the welfare of all residence hall students, coordinate the activities, serve as a channel of student opinion, insure that students are aware of their responsibilities and constitutional rights, encourage the development of responsibility, character, leadership, scholarship, citizenship, and create a new spirit of unity and service.

Sororities. There are seven social sororities active on campus, including Alpha Delta Pi, Alpha Kappa Alpha, Delta Gamma, Kappa Delta, Phi Mu, Delta Sigma Theta, and Zeta Phi Beta..

Tech Village Resident Association. The Tech Village Resident Association, known as the TVRA, is the governing body for all students living in the Tech Village apartments at Tennessee Tech. The purposes of the TVRA are: to be a medium of communication between the residents of Tech Village and the administration of Tennessee Tech, to be an instrument for the purpose of initiating action and for the recommendation of actions toward the improvement and enhancement of resident life, to create, develop and implement social activities for the benefit of the residents, and to be a collective agent in advocacy of the interests of the residents.

WTTU-FM. WTTU-FM, an educational broadcasting service of the University, began broadcasting in May 1972. Students are trained by WTTU staff members and serve in staff positions in news, music, sports, and other programming areas. The WTTU-FM management determines general operating policy in keeping with rules and regulations of the Federal Communications Commission. WTTU has an AP wire service. The 1850-watt station is operated solely by Tech students from 7 a.m. until 1 p.m. at 88.5 Mhz FM and 105 FM on the FNI Cable System. Located on the third floor of the University Center, the station consists of offices and studios.

Student Organizations. The University recognizes the role and scope of student organizations in order to make classroom learning relevant to the many interests of its students. Student organizations support the academic program by (1) providing opportunities for developing and using leadership skills, (2) furthering scholastic awareness, and (3) developing professional, social, and individual interests. There are approximately 220 student groups registered on campus, each with a distinctive and unique purpose and program of activities. The Office of Student Activities, Roaden University Center 122, may be contacted with questions about current organizations or starting new organizations.

Campus

Women's Center

The TTU Women’s Center exists to empower women in the student body, on the faculty, and on the staff of the University community through the dissemination of information, education and consultation. The Center’s mission includes collaborating with other functional areas of the University to provide a range of services that will enhance the lives of women and men in the University community. The TTU Women’s Center is located in RUC, Room 339. The director may be reached by writing Tennessee Tech, Box 5216, or by phoning (931) 372-3850.

Campus

Volpe Library

The Angelo and Jennette Volpe Library contributes to the university's mission by providing the collections, services, and environments that lead to intellectual discovery and student success.

The library has physical and digital collections, including University Archives and Special Collections and a selective US Federal Depository. Students can learn how to search the collections from online videos or get help from a librarian.

The library's TLC (Testing & Learning Center) offers testing and tutoring. Students may use TLC Testing for class exams, makeup exams, standardized tests, exit exams, placement tests, and other proctored exams. The library's peer-tutoring program is CRLA (College Reading & Learning Association) certified and free to all Tech students. The Learning Center also offers study groups and test prep sessions for specific courses.

Additional library services include a citation management tool and a notary service. The library hours are very user-friendly, and the building houses a wide range of technology.

Calendar

Fall 2025

Event	Date
Advisement and Registration	Thursday – Friday, August 14 – 15, 2025
Classes Begin	Thursday, August 21, 2025
Labor Day (No Classes, Offices Closed)	Monday, September 1, 2025
Last Day to Add a Class **Last Day to Drop a Class without a Grade** **(Eagle Online Closes for All Schedule Adjustments)**	Wednesday, September 3, 2025
Midterm Grading Begins	Wednesday, October 1, 2025
Fall Break (No Classes, Offices Open)	Thursday - Friday, October 16 – 17, 2025
Midterm Grading Ends	Monday, October 20, 2025
Last Day to Drop with a "W" Grade	Friday, October 24, 2025
Advisement Week	Monday – Friday, October 27 - 31, 2025
Spring 2026 Registration Begins	Monday, November 3, 2025
Veterans Day (No Classes; Offices Open)	Tuesday, November 11 , 2025
Thanksgiving Holiday (No Classes; Offices Open Wednesday Only)	Wednesday - Friday, November 26 – 28, 2025
Last Day of Classes	Friday, December 5, 2025
Finals	Monday – Thursday, December 8 -11, 2025
Fall 2025 Commencement	Friday, December 12, 2025
Fall 2025 Grades Due	Monday, December 15, 2025

Spring 2026

Event	Date
Advisement & Registration	Thursday – Friday, January 8 – 9, 2026
Classes Begin	Thursday, January 15 2026
Martin Luther King Holiday (No Classes, Offices Closed)	Monday, January 19 2026
Last Day to Add a Class **Last Day to Drop a Class without a Grade** **(Eagle Online Closes for All Schedule Adjustments)**	Wednesday, January 28, 2026
Midterm Grading Begins	Monday, March 2, 2026
Spring Break (No Classes, Offices Open)	Monday - Friday, March 16 - 20, 2026
Midterm Grading Ends	Friday, March 20, 2026
Last Day to Drop with a "W" Grade	Friday, March 27, 2026
Advisement Week	Monday-Thursday, March 30 - April 2 2026
No Classes; Offices Open	Thursday, April 2 2026
Good Friday (No Classes, Offices Closed)	Friday, April 3 2026
Summer & Fall 2026 Registration Begins	Monday, April 6, 2026
Last Day of Classes	Friday, May 1, 2026
Finals	Monday - Thursday, May 4 – 7, 2026
Spring 2026 Commencement	Friday, May 8, 2026
Spring 2026 Grades Due	Monday, May 11, 2026

Summer 2026

Event	Date
Intersession Classes Begin	Monday, May 11, 2026
Intersession Classes End	Friday, May 22, 2026
Memorial Day Holiday (No classes, Offices closed)	Monday, May 25, 2026
Summer 1 and Full-Term Classes Begin	Tuesday, May 26, 2026
Summer 1 Last Day to Add	Thursday, May 28, 2026
Summer 1 Last Day to Drop, No Grade	Sunday, May 31, 2026
Last Day to Add (Full Term)	Monday, June 1, 2026
Summer 1 "W" Grading Begins	Monday, June 1, 2026
Full-Term Summer Last Day to Drop, No Grade	Monday, June 8, 2026
Full-Term Summer "W" Grading Begins	Tuesday, June 9, 2026
Summer 1 Last Day to Drop with a "W"	Wednesday, June 17, 2026
Juneteenth (No Classes, Offices Closed)	Friday, June 19, 2026
Summer 1 Last Day of Classes	Wednesday, June 24, 2026
Summer 1 Study Day (No classes, Full-Term Summer)	Thursday, June 25, 2026
Summer 1 Finals (No classes, Full-Term Summer)	Friday, June 26, 2026
Summer 2 Classes Begin (Full-Term Summer resumes)	Monday, June 29, 2026
Summer 2 Last Day to Add	Wednesday, July 1, 2026
Independence Day (No Classes, Offices Closed)	Friday, July 3, 2026
Summer Full-Term Last Day to Drop with a "W"	Friday, July 10, 2026
Summer 2 Last Day to Drop, No Grade	Sunday, July 5, 2026
Summer 2 "W Grading Begins	Monday, July 6, 2026
Summer 2 Last Day to Drop with a "W"	Tuesday, July 21, 2026
Summer 2 & Full-Term Summer Last Day of Classes	Tuesday, July 28, 2026
Summer 2 & Full-Term Summer Study Day	Wednesday, July 29, 2026
Summer 2 & Full-Term Summer Finals	Thursday – Friday, July 30 -31, 2026
Summer 2026 Grades Due	Monday, August 3, 2026

Fees and Refunds

Fees, conditions of assessment, and refund policies are subject to change without prior notice by action of the Tennessee Tech Board of Trustees. All registration fees, dormitory rent and meal plan charges are payable in advance unless a deferred payment plan is approved (available for fall and spring semesters only). For more information about the deferred plan, including service charges, late fees, minimum deferrable amounts, etc., https://www.tntech.edu/bursar/payments/ contact the Business Office Accounts Receivable section.

Maintenance fees (in-state tuition) and out-of-state tuition are calculated based upon the number of Student Credit Hours (SCH's) for which a student is enrolled including any courses taken on an audit basis. **Fee rates are based upon student level (graduate or undergraduate) rather than on the course level.** For example, a graduate student choosing to enroll in an undergraduate course will be assessed graduate level rates. The full hourly rate will apply to the first 12 hours taken by an undergraduate and to the first 10 hours taken by a graduate student. A discounted hourly rate will apply to enrollment beyond these base hours.

TN eCampus and College of Business Graduate Online Course fees are calculated separately and payable in addition to the main campus fees. Fees for TN eCampus and College of Business Graduate Online Course hours are not subject to a discount for enrollment beyond 12 undergraduate or 10 graduate hours. Full hourly rates are assessed for all TN eCampus and College of Business Graduate Online Course enrollments.

The summer semester is divided into two sessions. Students may register for the full summer or for individual sessions separately; however, full payment for the entire schedule will be required on the earliest applicable deadline. For summer semester, fees are assessed at the full hourly rate and are not subject to discount for enrollment beyond the base hours. Also note the deferred payment plan is not available for summer semester.

In addition to in-state and out-of-state tuition, other fees are applicable. See the Bursar Office website at **www.tntech.edu/bursar/** for a comprehensive listing of current fees and the corresponding refund policies.

No student may enroll or receive a diploma, transcript of records, or grade report until all matured debts or obligations to the University, or any phase of its program, have been cleared.

Academic Fresh Start

"Academic Fresh Start", in accordance with Tennessee Tech Policy 1205, is a plan of academic forgiveness which allows undergraduate students who have experienced academic difficulty to make a clean start upon returning to college after an extended absence. The Academic Fresh Start allows eligible students to resume study without being penalized for his/her past unsatisfactory scholarship and signals the initiation of a new QPA/GPA to be used for determining academic standing. Readmitted students who were formally enrolled in the institution as well as transfer students who meet institutional requirements for admission and who have been separated from all institutions of higher education for a minimum of four (4) years are eligible for the Fresh Start. After the admission or readmission as a degree-seeking student, a student may file formal application to the Office of Enrollment Management describing an academic plan and requesting the Academic Fresh Start. A student may be granted a Fresh Start only once. After applying for Fresh Start, completion of at least fifteen (15) semester hours of earned degree coursework with a minimum QPA of 2.0 is required for all work attempted in order for Fresh Start to be granted.

Terms of the Academic Fresh Start

1. The student's permanent record will remain a record of all work; however, courses taken and previously failed will be excluded from the calculation of the QPA/GPA. The student's transcript will note that the Fresh Start was made and the date of the Fresh Start.
2. Courses with a D grade will also be excluded from the calculation when a grade of C or better is required in the student's current major.
3. QPA, GPA and credit hours will reflect courses for which passing grades were earned and retained.
4. Retained grades will be calculated in the Fresh Start QPA/GPA.
5. Courses with D or F grades must be repeated at the institution when they are required in the student's current major.
6. All remaining courses for the current degree objectives must be completed at the institution.
7. No transient credit will be accepted after invoking Academic Fresh Start.
8. The application of retained credit toward degree requirements will be determined by the requirements currently in effect at the time the academic renewal status is conferred on the student.
9. Specific program regulations must also be met.
10. Previously satisfied ACCUPLACER requirements will not be forfeited.
11. Upon degree admission, Fresh Start applicants who did not satisfy ACCUPLACER requirements at the time of previous enrollment and whose academic plan includes completion of a college-level English or mathematics course must meet current ACCUPLACER requirements regarding enrollment in college English and mathematics courses.
12. This policy is independent of financial aid regulations. Financial aid requirements at the time of application will apply. Therefore, a Fresh Start applicant should check with his/her financial aid counselor for guidance.

Academic Standards

Tennessee Technological University expects all students to strive for the highest academic achievement of which they are capable. Knowing that grades, once obtained, become a permanent record, the University is desirous that grades truly represent student accomplishment. A quality point average (QPA) of 2.00 is required to be eligible for the baccalaureate degree. This means that a 2.00 QPA is required over all college work taken, for all courses taken at Tennessee Tech, and for all courses taken in the major field.

It is the intention of the University to give the student ample opportunity to demonstrate satisfactory work. To achieve this purpose, a graduated retention standard scale has been adopted. A student who desires to raise his or her quality point average is encouraged to repeat courses in which he or she has unsatisfactory grades, to consider a reduced load, and to evaluate the choice of major.

Warning. Students who fail to satisfy the minimum semester QPA standard as given in (column 2, Retention Table) will be placed on academic warning. Students who have been issued an academic warning and who fail to meet the minimum semester QPA standard (column 2, Retention Table) the next semester enrolled will be placed on academic probation. In cases where, concurrently, the semester QPA would indicate academic warning and the cumulative QPA would dictate academic probation, the student will be placed on probation.

Probation. Students who fail to maintain the cumulative or current quality point average required for unconditioned retention are placed on probation. This indicates that the quality of work performed is not satisfactory and the student is in danger of suspension unless his/her achievement shows the required improvement.

A student on probation must not enroll in more than sixteen hours and must remove the probation status the next enrolled semester by exceeding the requirements of the Academic Retention Table. A student on probation that meets the semester average requirement but does not equal the cumulative requirement of the Academic Retention Table will continue on probation.

Suspension. Any student who has been placed on probation and who fails to meet both the required cumulative QPA standard (column 1, Retention Table) and semester QPA standard (column 2, Retention Table) the next semester enrolled will be suspended for a minimum of one semester. The summer term may not be counted as the term of suspension. The only exception to the previous statement is that a student placed on probation and who earns a semester QPA of at least 2.0 (or required minimum semester QPA) the next term enrolled, but who does not raise his/her QPA to the required cumulative QPA standard (column 1), will remain on probation. A student on probation who receives grades of only “S” and/or “W” will incur academic suspension, due to the fact that his/her QPA did not meet the semester QPA standard (column 2, Retention Table). A student suspended for a second time must remain out of school for one calendar year. If a student is suspended a third time, the student will be denied enrollment in the University for a period of two calendar years. The student may wish to enroll at a community college during that time. If a student remains out of school for four years, the student is eligible to apply for “Academic Fresh Start,” which allows the student to begin a brand new academic career.

Retention Table (Effective Fall 2010)

Cumulative Quality Hours Attempted Minus First Repeats	Required Minimum Cumulative Quality Point Average (Column 1)	Required Minimum Semester Quality Point Average (Column 2)
0.0 - 29.09	1.50	1.50
29.10 - 50.09	1.75	1.75
50.10 - and above	2.00	2.00

Readmission After Suspension. A student suspended for the first time will be accepted for readmission after one full fall or spring semester away from all institutions of higher education. The student must apply for readmission at www.tntech.edu/applyonline/. Readmission to the institution is subject to satisfactory performance at previous institutions if the student chooses to enroll at another institution while away from the University. A student applying for readmission after a second or third

suspension should follow the procedure listed below AFTER being away from the University for one calendar year for a second suspension and two calendar years for a third suspension. An exception to this required leave may be made for the student who completes an Associate of Arts or Associate of Science degree in a university parallel curriculum at a community college in the interim.

1. Student must submit the “Readmission after Suspension” form at least ten days prior to the beginning of the semester. International students need to apply six weeks before the beginning of the semester.
2. Student must provide any supporting documents or current academic transcripts to accompany the readmission application.
3. Student may personally explain to the Dean (or his/her designee) of his/her college the reasons for seeking readmission.
4. The readmission application and dean’s/designee’s recommendation will be considered by the University Admissions and Credits Committee.
5. Student will be notified by mail or email from the Office of Admissions about the status of the readmission application and the terms of readmission, if granted.

Appeal. A student may appeal part or all of his/her required leave from the University by completing the “Readmission after Suspension” application process at least ten days (or six weeks for international students) prior to the desired term of enrollment. During the appeal process, most of the suspensions are upheld with exceptions being made only when rare extenuating circumstances exist. The Admissions and Credits Committee will usually require the student to wait one semester before he or she can be readmitted.

Attendance and Withdrawal

Class Attendance. A student is expected to attend each meeting of every class for which s/he is registered. Each instructor is responsible for explaining, in writing, the course’s attendance policy at the beginning of each semester. Regular class attendance is a definite part of the total performance required for the satisfactory completion of any course, and an unsatisfactory attendance record may adversely affect the final grade for the course. If the attendance record of a student becomes unsatisfactory, the instructor can record a last of date of attendance that can adversely affect Financial Aid, Scholarships, Veteran’s Benefits and other types of assistance.

Unsatisfactory class attendance may likely result in the student receiving a grade of “F.” A student who is unable to return to classes due to an emergency or serious circumstance should notify the Office of Student Affairs. A student who cannot avoid an absence from a class for any other reason is expected to assume the responsibility of explaining his absence to the instructor and for making arrangements to complete the work missed. Tardiness is recorded as an absence. Students may consider a class dismissed and leave the room without penalty if the instructor fails to appear within fifteen minutes. At the end of each period, a ten-minute interval is allowed for changing classes.

Withdrawal from the Institution

1. Students who wish to withdraw from the University during a semester must submit a request for University Withdrawal to the Office of the Registrar. If no administrative holds have been assigned to the student account, such as a disciplinary hold, the student requesting to withdraw will receive a grade of “W” in all courses if an official withdrawal submission is received by the Office of the Registrar. The withdrawal submission must be received before or on the last day of classes as specified in Tennessee Tech’s official Administrative Calendar.
2. Students who do not timely submit a submission to the Office of the Registrar will receive a grade of F in each course for which they are registered. Submissions for withdrawal will not be considered when received after the last day of classes as specified in Tennessee Tech’s official Administrative Calendar.
3. If a student withdraws from classes and receives a “W” grade, the student does not need to apply for readmission if s/he is attending the very next Fall or Spring semester. If the student is skipping a Fall or Spring semester, s/he must apply for readmission (no fee) and can do so the very same day.
4. If a student withdraws from all classes during the time period which the transcript will not reflect a “W” grade, s/he must apply for readmission (no fee) and can do so the very same day. Students withdrawing from summer term do not need to reapply if they plan to attend classes in the Fall.
5. In the summer term, if a grade has been earned during any of the sessions, the withdrawal will be treated as a drop of a course rather than withdrawal so that the grade earned will not be voided by the withdrawal. If a withdrawal/drop has been processed in the summer term and the student wishes to register for a later summer session, the student must go to the Office of the Registrar for assistance in registering.
6. The refund policies for the University can be found on the Bursar’s web page.

If you wish to submit an official withdrawal or would like more information, visit the Registrar’s webpage for: University Withdrawal.

Definition of a Credit Hour

Tennessee Technological University is organized on a semester basis. When the term “hour” or “credit” is used, it refers to a semester hour credit. One semester hour of credit requires one hour (50 minutes) of classroom or direct faculty instruction and a minimum of two hours out-of-class student work each week for approximately fifteen weeks.

Two or more hours of laboratory or studio work are required per hour of credit. An equivalent amount of work is required for practica and other academic activities that award credit. Summer, intersession or other alternate course formats require the equivalent amount of work per credit hour. Laboratory hours per credit are determined by the department or college. Semester credit hours earned in courses such as internships, research, theses, dissertations, study abroad, etc. are based on outcome expectations established by the academic program.

Classification

(Year Level)

Course Hours Completed	Classification
0-29.9	Freshman
30-59.9	Sophomore
60-89.9	Junior
90 and greater	Senior

Courses are numbered according to the following pattern:

Course Numbers

1001-1999	Music Courses for Multiple Credit
1000-1999	Freshman Level
2000-2999	Sophomore Level
3000-3999	Junior Level
4000-4999	Senior Level
5000-5999	Graduate Level
6000-6999	Graduate (Restricted to Graduate Students)
7000-7999	Advanced Graduate

In the Catalog listings, courses offered at the senior level that may be taken at the graduate level show the graduate course number in parentheses beside the senior number.

Exams and Grades

Final examinations are held in all subjects at the close of each semester. Early examinations are not permitted.

The term grade is derived from a combination of the class grades, test scores, and examination grades, including the final examination grade, which reflect the student's total performance over the entire semester. The courses (and grades) in which each student has been enrolled appear on the University record of the student. Transcripts of these records are available. Students may view or print a grade report from Eagle Online.

Special arrangements will be made by instructors to allow students with disabling conditions to demonstrate their knowledge and/or competency on final examinations.

Quality points. Quality points are assigned to each semester hour credit as follows:

- For a grade of A, 4 quality points
- For a grade of B, 3 quality points
- For a grade of C, 2 quality points
- For a grade of D, 1 quality point
- For grades of F, IF, X, U, and NF, no quality points.
- For grades of I, W, SP, NP, P, EXC, CU, and AU, are not calculated in the Grade Point Average.

Quality Point Average. The quality point average for the semester is determined by dividing the total quality points earned by the total semester hours attempted. The cumulative quality point average is determined by dividing the total quality points for all semesters by the cumulative hours (total hours minus first repeats). Non-credit, remedial, developmental, exchange program, and courses taken for audit and co-op are disregarded in computing the college level quality point average for graduation.

When a course is repeated, only the credits for the last time the course was attempted are counted toward graduation. In computing the cumulative quality point average for graduation, the original grade is voided. Credits attempted with a grade of "W" are disregarded, but credits attempted with grades of U, X, NF and IF (incomplete calculated as F) are counted.

Grade of I (Incomplete). An "I" is assigned when a student's performance has been satisfactory, but for reasons beyond the student's control, he/she has not been able to complete the course requirements within the allotted time as determined by the instructor. **Students are not required to register for the courses again.** The faculty member files a form in the departmental office outlining the requirements necessary to satisfactorily complete the course at the time final grades are filed. A student has one calendar year or until the time of graduation, whichever comes first, to remove the "I" during which time the "I" is excluded from the calculation of the student's QPA. If the "I" is not removed within the above time limitations, it remains on the student's record permanently and is treated as an "F" in calculating the student's QPA. The "I" grade will appear as an "IF" on the transcript when calculated as an "F" grade.

Midterm Grades. The University recognizes that early warnings are beneficial for students having difficulty in a course. We commend those faculty members who encourage individual or group help sessions and recommend tutorial laboratories. We recommend that faculty members structure and clearly define the grading system so that students may determine by mid-term their level of performance. We further recommend that faculty members, whenever possible, contact students at mid-term who are performing poorly and offer assistance and suggestions for improvement. One component of the University's efforts to improve retention involves the implementation of a policy whereby all students having completed fewer than 30 hours of credit will receive a "Midterm Grade" for the courses in which they are currently enrolled, which can be viewed online by the student's advisor. A general outline of the proposed procedure is shown below.

Instructors will indicate whether the student's progress at Midterm was satisfactory (A, B, or C) or unsatisfactory (D or F). It is assumed that each instructor will be readily able to assess whether or not a student's progress was satisfactory. It is also assumed that faculty advisors will make efforts to use this information to assist the student. Midterm grades or lack thereof may not be used as an issue in a grade appeal.

For more specific instructions or information concerning midterm grading, please contact the Office of the Registrar, located in Jere Whitson Building, Room 221.

Grades and Quality Points

On September 1, 1951, the University adopted a 4.0 quality point scale, changing from the 3.0 scale. Grading System. Grades are indicated by letters:

A	–	excellent	AU	–	audit*
B	–	good	X	–	absent from examination
C	–	satisfactory	W	–	withdrew passing*
D	–	passing	S	–	satisfactory*
F	–	failure	U	–	unsatisfactory
FA	–	failure, attendance	CU	–	co-op unsatisfactory*
I	–	incomplete*	SP	–	thesis (satisfactory progress)*
IF	–	incomplete, calculated as an F	NP	–	thesis (no progress)*
NF	–	fail, never attended	EXC	–	exchange program*
P	–	pass*			

*Grades with an asterisk are not calculated in the Grade Point Average (GPA).

Minimum Class

Normally, the University does not offer a course in the freshman and sophomore years for which fewer than twelve students register, or in the junior and senior years for which fewer than eight students register, or in graduate classes for which fewer than six students register; however, the University is not obligated to offer these courses even though the minimum enrollments are met. The same restrictions are effective for a minimum class in the summer term.

Pass/Fail Option

1. The Pass/Fail option is available to all **special undergraduate students** including all full-time employees of the University pursuant to Chapter 191 of the Public Acts of 1975 and its guidelines for administration effective July 1, 1985.
2. Course prerequisites may be waived for students electing the Pass/Fail option at the discretion of the instructor.
3. The minimum requirements for a grade of “D” are necessary for a “pass” (P).
4. A course passed under the Pass/Fail system may NOT be credited toward a degree.
5. The instructor acknowledges the grade option for a student by signing the Pass/Fail option form.
6. The Pass/Fail option form will not be accepted later than the last day to add courses as published in the Calendar.

Repetition of Courses

A student may repeat a course, of equal or more credit hours, which was previously taken and received a final grade of C or lower. Students are permitted to repeat a course in which a grade of B or higher was earned only with the approval of the Dean and Chair of the student’s major. Completed forms should be submitted electronically to the Registrar’s Office at registrar@tntech.edu, or in-person to Jere Whitson Building, Room 221.

Courses may be repeated with only the first attempt being replaced by the second attempt. Any successive attempts will count in the cumulative grade point average with the last attempt standing as the grade in the course and only the last attempt for that course fulfilling the graduation requirement. Courses used to complete the graduation requirement must have a passing grade. This means that one may have credit for a course only one time in the calculated earned hours which apply toward the degree.

Transfer students applying for admission into the University will have their quality point averages recomputed with regard to repeats; their admission and standing will be subject to the revised average.

All grades received for a course will remain on a student’s transcript. A notation is added to indicate that the course has been repeated. The information showing the grade received when the course was repeated is given in the report for the semester during which the course was repeated.

Students may not repeat a course in which they have previously received the grade of “I” (Incomplete). Students must make arrangements with the professor who assigned the incomplete to finish the course during the academic year following the “I” grade.

Students receiving Veterans Educational Assistance benefits may not receive benefits for courses previously passed unless a higher minimum grade is required in the degree program.

Student Course Load

Minimum Course Load. The minimum load for full-time attendance is 12 semester hours. In the summer 4 hours is considered the minimum full-time load per session. (See “Financial Aid” section below).

Normal, Maximum, and Probationary Course Loads. Sixteen to seventeen hours is the normal student load. The maximum credit load for a student in good standing is 20 hours. The maximum load for students on academic probation is 16 hours for fall and spring semesters and 10 for summer. Any load exceeding the above requires approval by the Major Department Chair and Dean of the College or School in which the student is majoring.

Probation Course Load. The maximum load for students on academic probation is 16 semester hours for fall and spring semesters, and 10 for summer, with the exception of seniors within two semesters of graduation, who may carry 18 if necessary. A student on probation may be advised to take a lower load and must observe the load requirement or violate the terms of his/her probation.

Late Registration Course Load. Those who register late may be required to reduce their load.

Financial Aid. Federal law defines full time for financial aid purposes as being registered for at least 12 semester hours (excluding audit hours) for all semesters. Three-quarter time students include those who register for 9-11 semester hours, and half-time students include those who register for 6-8 semester hours. Students who drop below 6 credit hours during any semester (including summer) may have their financial aid deleted. Students who attend only one (1) summer session may have their financial aid reduced.

Please remember that you must attend class to be eligible for your financial aid. If you **withdraw** from school, **drop hours**, or just **stop** going to class, you will probably have to **repay** some or all of the aid you received.

Students must also be in an “eligible program” for purposes of receiving financial aid. All majors at TTU are degree-seeking. If students do not intend to earn a degree from TTU, or have previously earned a baccalaureate degree and are enrolling at TTU to earn a second baccalaureate degree, they may not be eligible for federal financial aid.

Student Responsibility

All students are required to have knowledge of rights, responsibilities and regulations pertaining to campus life which are published in the *Student Handbook*, **www.tntech.edu/studenthandbook/**

Each student is responsible for maintaining communication with the University by keeping officials informed at all times of current address (including zip code) and telephone number.

Students are responsible for the proper completion of their academic programs; for familiarity with requirements of the University Catalog under which they intend to graduate; for maintaining the grade average required; and for meeting all other degree requirements. A student may receive counsel from an academic advisor; however, the final responsibility remains that of the student.

Academic integrity is at the foundation of the educational process and key to student success. Students with academic integrity are committed to honesty, ethical behavior, and avoiding academic integrity violations. Maintaining high standards of academic integrity is critical to the reputation of Tennessee Tech, its students, alumni, and the employers of Tennessee Tech graduates. Policy 216 Student Academic Integrity describes the definitions of academic misconduct and policies and procedures for addressing Academic Misconduct at Tennessee Tech. For details, view the Academic Integrity website and Tennessee Tech’s Policy 216 – Student Academic Integrity at Policy Central.

The School Year

The school year consists of two semesters of approximately fifteen weeks each, and a summer term of ten weeks with some courses offered in two five-week sessions. A student may graduate in three years by attending three summer terms in addition to three regular years.

Summer School. The University maintains a summer term with some courses offered in two five-week sessions. Courses are scheduled so a student may complete a semester of course work if enrolled in both summer school sessions.

New students and former students not currently enrolled who expect to attend summer school should consult the catalog section entitled “Admission and Expenses.”

The summer term is considered equivalent to other semesters at Tennessee Technological University in regard to retention. The student on probation in summer is subject to the regular probation stipulations, including load and requirements for removing probation.

The official last day of the term is the Friday before graduation.

Transcript of Academic Records

Students may obtain a transcript of their academic records by:

- Parchment or
- logging into Tech Express and accessing their Eagle Online account.

However, alumni with all attendance dates prior to Summer 1986 needing a transcript must be requested using the written request form. Financial obligations to the University must be fulfilled prior to release of a transcript copy. There is no charge for a transcript copy; however, any payments received will be used to support the Educational and General Operation of the University.

Instructions for requesting transcripts can be found on the Registrar’s website.

Admissions

The admission policies and practices of the University are intended to assist students of varied backgrounds including but not limited to race, religion, color, creed, sex, and disabling conditions to gain admission to the University. The University actively seeks students of diversity due to a lack of critical mass of these unrepresented groups and encourages them to apply for admission and to inquire about programs. The admission standards are designed to assure students the best possibility of success at the University.

Prompt attention is given to each application but final action is not possible until all credentials are on file with the University. Students are encouraged to apply early (up to one year before the beginning of the desired term). Gaining admission early contributes to better orientation, course planning, course scheduling and financial aid and scholarship consideration. The application deadline date for receipt of the admission application, test scores (for freshman applicants), appropriate transcripts, and other required materials is August 1 for fall entry, December 1 for spring entry, and May 1 for summer entry. Students who wish to be considered for scholarships must apply for scholarships by December 15 of the year prior to their fall semester enrollment.

Upon admission, a student must complete health requirements prior to registering for courses.

The University reserves the right to modify admission policies and procedures as needed to ensure that enrollment does not exceed the facilities available.

Correspondence regarding admission should be addressed to the Office of Admissions, Campus Box 5006, Tennessee Technological University, Cookeville, Tennessee 38505. The website for Admissions is **www.tntech.edu/admissions**. The e-mail address is **admissions@tntech.edu**.

Admissions

Admission to Freshman Standing

An applicant who has not enrolled in college courses following high school graduation or receiving a high school equivalent (HSE) diploma, GED/HiSET may be considered for admission as an undergraduate freshman. To gain admission to the University as a freshman student, one must meet the following requirements:

Graduates of public and non-public (including private schools, home schools, and church-related schools) high schools must provide an official high school transcript showing credits earned and date of graduation. Provisional admissions on academic merit through the sixth or seventh semester can be made; however, a final high school transcript showing graduation date and satisfactory grades must be received by the Office of Admissions before full admission can be granted.

The University upholds the requirements and recommendations of the State of Tennessee for Tennessee non-public schools: www.state.tn.us/education/schools/non_public_schools.shtml. Out-of-state, online, and international schools are subject to a case-by-case evaluation to uphold a similar standard. Applicants who cannot provide a satisfactory secondary school credential may substitute acceptable scores on the GED or HiSET examination.

High School Curriculum Requirements: Students graduating from high school must complete a distribution of college preparatory courses. The required courses in the Tennessee High School Diploma provide an example of such courses (see TBR Admissions Policy 2:03:00:00 Section II.B.1.a,(4)).

Admission requirements for new freshman applicants must have a 2.5 high school GPA and a 17 ACT Composite score (or a 930 SAT Critical Reading and Math score). Additionally, new freshman applicants must score at least a 15 on each subscore of the ACT (440 SAT ERW and 400 SAT Math). Students with a final 3.0 high school GPA or higher will be admitted regardless of test scores, but test scores may still be required for course placement purposes.

Students that are over 21 years of age are exempted from the ACT/SAT requirement but must meet the required score on a course placement exam such as the ACCUPLACER.

Students who do not meet the above requirements will be reviewed by the Holistic Review Committee and a more individual review will be used to evaluate the application for admission. Students volunteering information regarding a handicapping condition will be assessed on an individual basis.

Admission to the College of Engineering also requires a high school GPA of 3.00, an ACT composite score of 20, and an ACT mathematics score of 22. Admission to the mathematics major also requires an ACT mathematics score of 21.

Applicants whose native language is not English may be required to take a placement test or submit test scores for the purpose of validating previous English study and/or placement in English courses, including English composition and English as a Second Language.

Applicants for admission to freshman standing who have been enrolled at another college or university must submit official transcripts from each institution attended (see Admission as a Transfer Student for more information on official transcripts).

Admissions

Application Procedure for Freshmen

Complete the online application for Undergraduate Freshman at www.tntech.edu/apply by the priority deadlines listed at the top of this section.

1. All first-time applicants must provide a one-time, non-refundable fee of $25. This fee can be paid when submitting the application online or by logging into the application portal using the same username/password the student used to create the application.
2. Request an official high school transcript showing coursework, grades, and a graduation date be sent to the Undergraduate Admissions Office. To be considered for admission during the senior year of high school, a transcript showing coursework through grade eleven (six graded semesters) is required. A final transcript must be forwarded upon graduation. If a high school diploma was not earned, a state-issued transcript of GED or HiSET scores is required. If a student has attempted any college credit (through dual-enrollment, summer courses, etc.) at any institution of higher education, such official college transcripts must be sent to the Undergraduate Admissions Office.

   Official transcripts must be sent from the institution attended and delivered directly to the University. Transcripts may be delivered via post or electronically through an approved vendor (see the Undergraduate Admissions website for approved vendors). Faxed or emailed transcripts that are sent by the student or another person who is not an official representative of the academic institution are **not** considered official transcripts.

   Mailing Address:
   Tennessee Tech Undergraduate Admissions
   Campus Box 5006
   Cookeville, TN 38505

3. Each applicant under 21 years of age is required to take the American College Test (ACT) or the Scholastic Aptitude Test (SAT). Scores should be requested to be sent to Tennessee Technological University when you register for the test. The school code for TTU (ACT 4012/SAT 1804). Test scores used for admission must be no more than three years old at the first day of class. Once approved, applicants over the age of 21 must take a course placement exam such as the ACCUPLACER which is offered on Tennessee Tech's campus.
4. Additional items may be required per the Office of Admissions in order to ensure a complete review of an applicant.
5. In compliance with the requirements of the Office of Residential Life, an application and prepayment for on-campus housing should be submitted to the Office of Residential Life. (See Residential Life.)
6. Each applicant should complete and return the Student Health Form, the Hepatitis/Meningitis Wavier Form, and supply requisite immunization documentation before registering for courses. Forms are available to download from the Health Services website at www.tntech.edu/healthservices. (See "Health Requirements" section for more information.)
7. Notification will be sent via email, followed by an official letter via mail. The admission decision can also be viewed by logging back into the application portal.

It is a Class A misdemeanor to misrepresent academic credentials. A person commits the offense of misrepresentation of academic credentials who, knowing that the statement is false and with the intent to secure employment at or admission to an institution of higher education in Tennessee, represents, orally or in writing that the person:

- Has successfully completed the required course work for and has been awarded one (1) or more degrees or diplomas from an accredited institution of higher education;
- Has successfully completed the required course work for and has been awarded one (1) or more degrees for diplomas from a particular institution of higher education; or
- Has successfully completed the required course work for and has been awarded one (1) or more degrees or diplomas in a particular field or specialty from an accredited institution of higher education.

Admissions

Advanced Placement with Credit

Entering students and regularly enrolled students may obtain advanced placement with credit in certain courses by obtaining high scores on the appropriate test(s):

ACT English Subtest score of 27-30	ENGL 1010
SAT Critical Reading Subtest score of 620-650	ENGL 1010
ACT English Subtest score of 31 or higher	ENGL 1010 and ENGL 1020
SAT Critical Reading Subtest score of 660 or higher	ENGL 1010 and ENGL 1020

The ACT code for Tennessee Tech is 4012. The SAT code is 1804.

ADVANCED PLACEMENT POLICY FOR TTU
Effective July 1, 2018

A.P. Examination	Score	Course Exemption	Semester Hours
Biology	3	BIOL 1010 or BIOL 1113	4
	4	BIOL 1010 & BIOL 1020 or BIOL 1113 & BIOL 1123	8
Calculus (AB)	3	MATH 1830	3
	4	MATH 1910	4
Calculus (AB) Subscore	3	MATH 1830	3
Calculus (BC)	3	MATH 1910 & MATH 1920	8
Chemistry	4	CHEM 1110	4
	4	CHEM 1110 or CHEM 1010 & CHEM 1020	4 or 8
	5	CHEM 1110 & CHEM 1120 or CHEM 1010 & CHEM 1020	8
Computer Science A	3	CSC 1200	3
Computer Science Principles	3	CSC 1200	3
Economics: Micro	3	ECON 2010	3
Economics: Macro	3	ECON 2020	3
English Language and Composition	3	ENGL 1010	3
	4	ENGL 1010 & ENGL 1020	6
Environmental Science	3	BIOL 3130	4
English Literature and Composition	3	ENGL 2235 & ENGL SO1B	6
European History	3	HIST 2210 & HIST 2220	6
World History	3	HIST 2310 & HIST 2320	6
French Language	3	FREN 1010 & FREN 1020	6
	4	FREN 1010, FREN 1020 & FREN 2010	9
	5	FREN 1010, FREN 1020, FREN 2010 & FREN 2020	12
German Language	3	GERM 1010 & GERM 1020	6
	4	GERM 1010, GERM 1020, & GERM 2010	9
	5	GERM 1010, GERM 1020, GERM 2010 & GERM 2020	12
Government and Politics: United States	3	POLS 1030	3
Human Geography	3	GEOG 1012	3
Spanish Language	3	SPAN 1010 & SPAN 1020	6
	4	SPAN 1010, SPAN 1020, & SPAN 2010	9
	5	SPAN 1010, SPAN 1020, SPAN 2010 & SPAN 2020	12
Statistics	3	MATH 1530	3
Physics 1	3	PHYS 2010	4
Physics 2	3	PHYS 2020	4
Physics C: Mechanics	3	PHYS 2010 or PHYS 2110	4
Physics C: Electricity and Magnetism	3	PHYS 2020 or PHYS 2120	4
Psychology	3	PSY 1030	3
United States History	3	HIST 2010 & HIST 2020	6

a Students may submit the exam essay portion for departmental evaluation for possible credit in CHEM 1120.

CLEP (College Level Examination Program) - 25 subject matter tests from which to select - credit given in corresponding courses for acceptable scores. Credit is not given for the general examinations. For further information, contact the Admissions Office.

PLTW (Project Lead the Way Credit) – ENGR 1210 (1 credit hour) will be awarded to secondary school students who participate in the “Project Lead the Way” and achieve a minimum grade 70% on the nationalized “Final Exam on Principles of Engineering”. The requesting student will need to have his/her test score sent to Tennessee Tech.

Credit by Examinations - A student who has had sufficient training or experience in a subject to merit the establishment of credit by comprehensive examination, but who has not enrolled in the same, comparable, or higher level course at the college level, may request the privilege of taking a special examination prepared by the department involved. A grade will be recorded on the permanent record.

Non-credit Courses and Professional Certification – Academic credit may be awarded on occasion for professional certification or non-credit courses. Requests for the award of such credit must be submitted to the appropriate department chairpersons. As the executor of departmental policy, he or she will evaluate the requests and submit a recommendation to accept or reject them to the college dean and Office of Records for final approval.

The ACT code for Tennessee Tech is No. 4012. The SAT code is No. 1804.

Credit obtained through test scores on ACT, SAT, CLEP and PLTW receive the grade of “S” for satisfactory and do not affect the student’s quality point average. Up to 60 semester hours of credit may be obtained through any combination of advanced placement tests, military equivalency credits, correspondence courses, special departmental examinations, and extension courses. For more detailed information, contact the Office of Admissions or your high school counselor.

Admissions

International Baccalaureate

The University recognizes the International Baccalaureate diploma and individual IB courses by awarding credit on IB higher level examinations. Some standard level examinations may also be considered for credit.

Standard-Level IB Courses

International Baccalaureate Course	Minimum Required Score	TTU Equivalent	Credit Hours Earned
Visual Arts A (SL)	4	Art Studio Elective	3
	5	ART 1035	3
	6 or 7	ART 1035, studio elective	3, 3
Visual Arts B (SL)	5 - 7	ART 1035	3
Chemistry (SL)	5 - 7	CHEM 1010, CHEM 1020	8
Economics (SL)	6 or 7	ECON 2010, ECON 2020	6
French (SL)	6	FREN 1010, FREN 1020	6
	7	FREN 2010, FREN 2020	6
German (SL)	6	GERM 1010, GERM 1020	6
	7	GERM 2010, GERM 2020	6
Language (SL)	6	ENGL 1010	3
	7	ENGL 1010, ENGL 1020	6
Mathematics: Applications & Interpretations (SL)	No credit awarded		
Mathematics: Analysis & Approaches (SL)	6	MATH 1710, MATH 1830	3, 3
Music A (SL)	5	No credit	
	6 or 7	MUS 1030	3
Philosophy (SL)	No credit awarded		
Physics (SL)	No credit awarded		
Psychology (SL)	5 - 7	PSY 1030	3
Spanish (SL)	6	SPAN 1010, SPAN 1020	6
	7	SPAN 2010, SPAN 2020	6
Sports, Exercise and Health Science (SL)	5	EXPW 1150	3
Theatre (SL)	5 - 7	THEA 1030	3

Higher-Level IB Courses

International Baccalaureate Course	Minimum Required Score	TTU Equivalent	Credit Hours Earned
Visual Arts (HL)	5	Studio Elective	3
	6 or 7	Up to six credit hours studio elective with portfolio review	
Biology (HL)	5 - 7	BIOL 1010, BIOL 1020 or BIOL 1113, BIOL 1123	8
Chemistry (HL)	5 - 7	CHEM 1110, CHEM 1120	8
Economics (HL)	5 - 7	ECON 2010, ECON 2020	6
French (HL)	5	FREN 1010, FREN 1020	6
	6 or 7	FREN 2010, FREN 2020	6
German (HL)	5	GERM 1010, GERM 1020	6
	6 or 7	GERM 2010, GERM 2020	6
History (HL)	5 - 7	Lower-division history elective	3
Language (HL)	5	ENGL 1010	3
	6 or 7	ENGL 1010, ENGL 1020	6
Mathematics: Analysis & Approaches (HL)	5 - 7	MATH 1730, MATH 1910	5, 4
Mathematics: Applications & Interpretations	6	MATH 1710, MATH 1830	3, 3
Philosophy (HL)	5 - 7	PHIL 1030	3
Physics (HL)	5 - 7	PHYS 2010, PHYS 2020	8
Psychology (HL)	5 - 7	PSY 1030	3
Spanish (HL)	5	SPAN 1010, SPAN 1020	6
	6 or 7	SPAN 2010, SPAN 2020	6
Sports, Exercise and Health Science (HL)	5	EXPW 1150	3
Theatre (HL)	5 - 7	THEA 1030	3

Admissions

Admission by Examination (GED/HiSET Applicants)

Applicants who have not graduated from high school but whose corresponding high school class has graduated must submit an official transcript of the General Educational Development (GED) or HiSET Test. A minimum of a 162 GED (525+ 2002-2013 or 52+ pre-2002) or 13 HiSET score is required for admission. An ACT score is also required of (1) all applicants who are under 21 years of age or (2) all applicants regardless of age, who are seeking majors in engineering, nursing, or pre-professional programs. All GED/HiSET students must also take the ACCUPLACER exam unless ACT/SAT scores are less than three years old. For specific requirements regarding ACT scores, see Admission to Freshman Standing. For application procedures, see Application Procedure for Freshmen.

Admissions

Pre-Freshman Programs (Dual/Joint Enrollment)

Academically talented students may be admitted into the Pre-Freshman Program by having a planned Individual Education Program (IEP). The following criteria must be met by each applicant.

1. Enrollment recommended as a part of the student's planned Individual Education Program (IEP) as determined by the multi-disciplinary team process.
2. Certified to be academically talented or gifted according to the criteria for certification of intellectually gifted which are contained in the Tennessee State Department of Education *Student Evaluation Manual*.
3. High school grade point average of at least 3.2 on a 4.0 scale.
4. Must have fully utilized the school's or school system's courses in the desired area of study, or must have satisfactorily completed tests for these courses with a score of 75 or better.

A student who does not have an IEP may be admitted to the Pre-Freshman Program by meeting all of the following criteria:

1. A recommendation from the high school guidance counselor.
2. A minimum high school grade point average 3.5 on a 4.0 scale or an ACT composite score of 25.

Admission in the Pre-Freshman program will allow enrollment in one course per semester if seats are available. Approval from the academic department to enroll in the desired course is also required. Exceptions to take more than one course may be made. Please seek permission from the Admissions Office. College credit will be given for courses that are satisfactorily completed. This admission is not available for enrollment in activity or private instruction courses. A semester grade of "B" or better is expected; however, a semester review of the student's success will be performed by the University to determine whether continued enrollment is allowed. It is expected that such students return to their high school for completion of the senior year and graduation.

Dual Enrollment students receive both high school credit and college credit for the course in which they are enrolled. Tennessee Tech has formal dual enrollments with several Tennessee high schools. In order to participate in the program, students from these schools must meet the following requirements:

- Be a high school junior or senior
- Have a 3.0 or higher grade point average
- Obtain high school counselor approval

For more information about dual enrollment including a list of participating schools, please visit: https://www.tntech.edu/admissions/undergraduate/requirements/high-school-programs.php

Joint Enrollment students receive college credit for the courses they take on campus at Tennessee Tech while they are still enrolled in high school. The courses may or may not count for high school credit and depends on the high school. Joint enrollment students are required to have a minimum of a 3.0 high school GPA and be recommended by their high school counselors to be considered for admission. To apply as a joint enrollment student, the student must simply complete an online application found at tntech.edu/apply and select "Joint Enrollment" as your student type. For more information about joint enrollment, please visit: https://www.tntech.edu/admissions/undergraduate/requirements/high-school-programs.php

Admissions

Admission as a Transfer Student

An applicant who has begun college elsewhere following high school graduation or the awarding of a high school equivalent diploma (GED or HiSET) is a transfer student. If the student has completed less than twenty-four transferable semester hours of degree credit (college-level courses), the applicant will be evaluated using the admission requirements for freshmen applicants.

1. Transfer applicants must meet the following academic standards based on all of their previous college-level coursework at all institutions. (1) Must have a minimum cumulative GPA of 2.0; (2) Must have at least a 2.0 in their last full-time semester (or last 12 hours for part-time students).
2. Transfer applicants having graduated from a Tennessee Board of Regents community college with an A.A. or A.S. degree in a university-parallel program will usually be eligible for admission.
3. An applicant under disciplinary suspension or probation will not be considered for admission until a satisfactory statement has been furnished by the former college.
4. Students who do not meet the above requirements will be reviewed by the Holistic Review Committee. Students volunteering information regarding a handicapping condition will be assessed on an individual basis.
5. Applicants whose native language is not English will be required to take a placement test or submit test scores for the purpose of validating previous English study and/or placement in English courses, including English composition and English as a Second Language.

Admissions

Application Procedures for Transfer Students

1. Complete the online application for Undergraduate Transfers at www.tntech.edu/apply by the deadlines listed at the top of this section.
2. All first-time applicants must provide a one-time, non-refundable fee of $25. If the applicant has previously paid the UG application fee, then the applicant is not required to pay the UG application fee again.
3. Submit official transcripts of all college work completed and a partial transcript if presently enrolled in coursework. Tentative admission may be granted on the basis of partial transcripts if the quality of work at previous institutions clearly meets admission requirements. Submit official final transcripts when all work is completed. Transcripts of all work attempted at the college-level must be submitted. Final admission is granted only after all transcripts and credentials are received.

Official transcripts must originate from the institution attended and are delivered directly to the University. Transcripts may be delivered via post or electronically through an approved vendor (see the Undergraduate Admissions website for approved vendors). Faxed or emailed transcripts that are sent by the student or another person who is not an official representative of the academic institution are **not** considered official transcripts.

Mailing Address:
Tennessee Tech Undergraduate Admissions
Campus Box 5006
Cookeville, TN 38505

It is a Class A misdemeanor to misrepresent academic credentials. A person commits the offense of misrepresentation of academic credentials who, knowing that the statement is false and with the intent to secure employment at or admission to an institution of higher education in Tennessee, represents, orally or in writing that the person:

- Has successfully completed the required course work for and has been awarded one (1) or more degrees or diplomas from an accredited institution of higher education;
- Has successfully completed the required course work for and has been awarded one (1) or more degrees for diplomas from a particular institution of higher education; or
- Has successfully completed the required course work for and has been awarded one (1) or more degrees or diplomas in a particular field or specialty from an accredited institution of higher education.

4. Students who have NOT earned 24 transferrable college-level hours are required to submit an official final high school transcript or GED/HiSET scores. Those who have not completed college-level Math or English courses must follow ACCUPLACER testing guidelines. Students under the age of 21 who have completed fewer than 24 semester hours must also submit official ACT/SAT scores.

5. Additional items may be requested per the Office of Admissions in order to ensure a complete review of an applicant.

6. In compliance with the requirements of the Office of Residential Life, an application and prepayment for on-campus housing should be submitted to the Office of Residential Life if the student is transferring with 29 or fewer credits (see Residential Life).

7. Each applicant should complete and return the Student Health Form, the Hepatitis/Meningitis Wavier Form, and supply requisite immunization documentation before registering for courses. Forms are available to download from the Health Services website at www.tntech.edu/healthservices. (See "Health Requirements" section for more information.)

8. Notification of the admission decision will be sent via mail, email and will be available online. If admitted, information concerning orientation and registration will follow either via mail or email. The admission decision can be viewed by logging into the application portal.

Admissions

Readmission of Former Students

Readmission A former student of the University must file an application for re-admission. The application may be obtained online at www.tntech.edu/applyonline. No application fee is required.

A former student who has been suspended or dismissed must submit a Request for Readmission After Suspension in addition to the application for re-admission. Admission decisions for suspended or dismissed students are determined by the Admissions Review Committee.

Students should contact the Office of Residential Life concerning on-campus housing requirements (See Residential Life).

Readmission After Suspension. A student suspended from the University is eligible for readmission after suspension by following the steps listed below. For the first suspension the student is eligible for readmission after one full fall or spring semester away from all institutions of higher education. The student must apply for readmission to the university at www.tntech.edu/apply, as well as following all steps listed below. Readmission to the institution is subject to satisfactory performance at previous institutions if the student chooses to enroll at another institution while away from the University. A student applying for readmission after a second or third suspension must apply for readmission to the university at www.tntech.edu/apply and follow the procedure listed below AFTER being away from the University for one calendar year for a second suspension and two calendar years for a third suspension. An exception to this required leave may be made for the student who completes an Associate of Arts or Associate of Science degree in a university parallel curriculum at a community college in the interim.

1. Students must submit the "Readmission after Suspension" form prior to the beginning of the semester. International students need to also apply before the beginning of the semester.
2. Students must provide any supporting documents or current academic transcripts to accompany the readmission application.
3. Students may personally explain to the Dean (or his/her designee) of his/her college the reasons for seeking readmission.
4. The readmission application and dean's/designee's recommendation will be considered by the University Admissions and Credits Committee.
5. Students will be notified by mail or email from the Office of Admissions about the status of the readmission application and the terms of readmission, if granted.

Appeal. A student may appeal part or all of his/her required leave from the University by completing the "Readmission after Suspension" application process. During the appeal process, most of the suspensions are upheld with exceptions being made only when rare extenuating circumstances exist. The Admissions and Credits Committee will usually require the student to wait one semester before he or she can be readmitted.

Admissions

Admission as a Special Undergraduate Student

A Special Undergraduate student is not a candidate for a degree; however, this classification allows one to register for **undergraduate** courses, obtain grades, and have these grades recorded on an official University transcript. This classification includes students who have and have not yet received a bachelor's degree. Applicants who are not currently in good standing at the last college attended cannot be admitted as a Special Undergraduate student. Admission as a Special Undergraduate student may be granted a person if it appears that he or she may successfully engage in college work and that enrollment will be beneficial to the person and to the University.

Admission as a Special Undergraduate Student does not guarantee enrollment in any course. After gaining admission, the student is subject to normal procedures for registering for courses. Application for admission to this classification should be filed at least thirty (30) days prior to the beginning of the semester in which enrollment is desired. All fees are the same as for regular students.

All individuals wishing to be admitted in this classification are required to submit an application for admission (available online at www.tntech.edu/applyonline) and select "Non-Degree Seeking/Special" as a major and indicate "Special" status. The ACCUPLACER assessment is required for students enrolling in English or mathematics courses. Special students are not eligible for federal and state financial aid.

Admissions

Admission for Second Bachelor Degree or Teacher Certification

A student working towards a second baccalaureate degree or teacher certification is one who has already earned a bachelor's degree and is not working toward a graduate degree, but who takes graduate or undergraduate courses for credit toward a second undergraduate degree or teacher certification. Students must apply for admission (or readmission) to enter this classification and those entering the University for the first time must pay a one-time, non-refundable application fee of $25. A student who is seeking a second undergraduate degree should file an application for graduation during the first semester of attendance. A student should *not* register for graduate courses without prior permission from the Associate Vice President for Research and Graduate Studies. **Credit earned in this classification cannot be counted for graduate degree purposes.**

Admissions

Admission as a Transient Student

A transient student is one who is regularly enrolled in another collegiate institution and desires admission for one semester. The student is required to submit an application for admission (available online at www.tntech.edu/applyonline) and to provide a letter of good standing from the college in which the student is enrolled. The student should indicate "Transient" status and select "Non-Degree Seeking/Special" as a major. Credit is given and transient admission is for one semester only. A transient student who wishes to become a regular student must file the appropriate admission application and meet the requirements for admission as a transfer student.

Transient students are not eligible for federal and state financial aid.

Admissions

Admission to Class as an Audit Student

An audit student is one who enrolls in classes on a non-credit basis, is expected to attend class, but is not required to hand in assignments or to take examinations. If the instructor is not satisfied with the attendance, the instructor may request an administrative drop after attempting to resolve the issue with the student directly. A student who audits must be admitted to the University as a regular or special student. Registration fees are the same for audit as for credit, with the following exception: permanently, totally disabled persons or persons 60 years of age or older who are domiciled in Tennessee may audit courses without paying tuition, maintenance fees,

or general access fess as long as classroom space is available. Participants must pay the application fee and any special activity fees associated with courses. Program participants may begin to register four weeks prior to classes beginning. Proof of permanent total disability or age will be required at the time of registration and enrollment confirmation.

Audit requests will be processed only until the last day to register, add, or change sections as published in the University Academic Calendar each semester. Following the published "last day to add." students may not change their enrollment status in a course from credit to audit or from audit to credit.

Admissions

Health Requirements

There are health requirements with which the student must comply prior to beginning classes. These requirements are not for the purpose of limiting admission, but are to promote a healthy student body.

1. Complete the Immunization Health History form (with official medical documentation and/or medical provider's signature). See https://www.tntech.edu/healthservices/immunization.php for a complete listing of immunization requirements.
2. State Law requires each postsecondary institution in Tennessee provide students with information concerning hepatitis B and meningococcal meningitis infections. All students must complete a *Meningococcal Meningitis and Hepatitis B Immunization Health History Form*.
3. All new incoming students living in on campus housing under the age of 22 must submit proof of having a meningitis vaccine on or after their sixteenth birthday before you will be allowed to live in on-campus housing.
4. TTU Policy no. 360 requires that all new incoming students complete the Tuberculosis Screening Form prior to registration.

PLEASE COMPLETE THESE AND RETURN TO THE STUDENT HEALTH SERVICES PRIOR TO BEGINNING CLASSES. Forms are available online at www.tntech.edu/healthservices.

Special programs of study such as nursing may have additional requirements.

Admissions

Residence Classification

In accordance with TBR Policy 3:05:01:00 and TTU Policy 1201, every person having his or her domicile in this State shall be classified "in-state" for fee and tuition purposes and for admission purposes. Every person not having his or her domicile in this State shall be classified "out-of-state" for said purposes. The domicile of an un-emancipated person is typically that of his or her parent. Students once classified as "in-state" or "out-of-state" will maintain such classification for fee paying purposes during continuous enrollment.

Changes to residence classification are initiated by the student. A request for review must be submitted to the Office of Admissions prior to the beginning of the desired term and adequate information must be provided by the student to warrant a review of resident status. Requests for a first appeal must be made in writing to the Director of Admissions within 30 calendar days, absent good cause, of notification from the initial decision of the Residency Classification Officer. Requests for a second appeal must be made in writing to the Vice President for Enrollment Management and Communication within 30 calendar days of notification of the first appeal decision. The decision of the Vice President will be final.

If a student classified out-of-state applies for in-state classification and is subsequently so classified, his or her in-state classification shall be effective as of the date on which reclassification was sought. However, out-of-state tuition will be charged for any quarter or semester during which reclassification is sought and obtained unless application for reclassification is made to the admissions officer on or before the last day of registration of that quarter or semester.

Admissions

Admission of International Students: Undergraduate Study

Tennessee Technological University encourages its faculty, staff, and administrators to foster the enrollment of qualified international students in suitable programs, to work with Government Embassies and Sponsoring Agencies, Overseas Accredited Recruiters (Agents) and Intensive English programs to attract students whose academic potential has already been recognized in their home countries, and to provide appropriate services for international students who enroll at the University. Admissions applications for international students may be obtained from Tennessee Tech's website: https://www.tntech.edu/admissions/international/index.php.

An international student is classified for educational purposes as a person who is a citizen and permanent resident of a country other than the United States. **Tennessee Tech University is authorized under Federal law to enroll non-immigrant alien students.**

All international students whose native language is not English must have an official Test of English as a Foreign Language (TOEFL) score or its equivalent (whether another English based test or Certificate from an accredited Intensive English language Program. The admission requirements for international students applying to college for the first time are as follows:

1.		Be at least 16 years of age.
2.		Graduate from a Secondary School with proof of such with diploma and support documentation showing all years of high school course work.
3.		Demonstrate competence in basic courses at the secondary level that are closely related to the intended major program of study at the University.
4.		International students who will be applying for a student visa are recommended to complete the application 3 to 6 months in advance. Students who reside in the USA may apply up to one month in advance. The following items are required for final admission:
	a.	$40 non-refundable application fee.
	b.	Test which demonstrates proficient English skills (for students from countries where English is not the primary language). TOEFL test scores should be sent directly from the testing agency. Please use the institution code of 1804 when requesting that scores be submitted directly to TTU. A TOEFL institutional score of 490 or its equivalent on the internet based TOEFL or Computer Based TOEFL will be acceptable for a provisionally admitted student and the student must maintain 2.0 cumulative grade point average by the end of the 2nd semester or the student will be dismissed. Acceptance of Institutional TOEFL scores originating from Intensive English Language Programs (copy accepted since only one copy is issued or guaranteed by school administrator). If TOEFL test scores are not available, then alternative tests can be submitted for admission. Students may provide an alternate test such as ONE OF THE FOLLOWING (which can be used in place of the TOEFL requirement).

	Please provide one of the following tests for Admission to TTU to replace the TOEFL test:	
	TEST ORIGINATOR	Minimum Score required
	Tennessee Tech's Center for ESL	Level 4 or Level 5
	TOEFL – Test of English as a Foreign Language	490 paper-based 163 computer-based 57 internet-based
	IELTS – International English Language Testing System	5.5 all other nations 6.0 (all Kuwait applicants)
	EIKEN	2 A Grade (College of Junior College Level)
	TOEIC -Test of English for International Communication	580
	ITEPS (The International Test of English Proficiency)	4.5
	Pearson Test of English (PTE)	52
		ELS level 109
		FLS International Level 7 (old scale) or Level 14 (new scale)
	English Language Program Levels	International English Institute Nashville Level 6
		The Language Company Level 8
	Michigan Test (MELAB)	80
	Cambridge IGCSE or O Level English with an E or better	Level O/A/ AS levels
	Cambridge CEFR	Level B1, B2, C1, C2
	International Baccalaureate (IB Credit)	IB Diploma: Language A - Language and Literature (SL or HL) with a minimum score of 5
	AP English	L & C - minimum score of 3
	Accuplacer	Minimum score of 28
	Two semesters or three quarters of college-level English composition from an accredited college or university (Non-USA based schools may require the WES or another NACES member).	C grade or better from an accredited US Canadian/ British/New Zealand or Australian based college
	ACT	English score of 17 or higher (19 *can be used to replace the TOEFL requirement)
		Math 19
		Reading 19
	SAT	Critical Reading score of 420 or higher (460 *can be used to replace the TOEFL requirement)
		Math 460

		Note: TTU offers conditional letter of admission (CLA) to applicants who meet the academic and financial requirements but whose English language proficiency does not meet the levels for full admission. Students who receive a Conditional letter of admission must provide one of the English test scores or provide proof of completion of one of the ESL Language Center completion levels. The student upon arrival at TTU to assess their need for additional language instruction must take the Placement Exam in reading, writing and math. If the Placement exam shows the student needs additional English support, then he/she must enroll in additional English language courses, taught through the Foreign Language Department, courses such as ESL 1010 or ESL 1020 classes. Students may also be asked to take the ACCUplacer Exam in math, reading and writing test again in the Library.
		International Undergraduate students who complete advanced levels at partnered Intensive English-language Programs will be permitted to enroll at Tennessee Tech University by waiving the English test score requirement. These students must meet all other requirements for admission at TTU. These students must also take the reading, writing, and math ACCUplacer Exam prior to registering for classes. The students whose results do not meet the requirements for fluency in the classroom or English Composition will be required to enroll in additional ESL courses offered by the Center for ESL.
5.		Students must also provide an official academic record, which includes all courses and all years completed at the secondary(high school) level, which includes grades earned, final examination scores, diplomas, matriculation record or leaving certificate. The admission decision will be based on the student's own educational grading system. All records should be in the original language with the institution's seal, records from nations in which the first language is not English must be accompanied by a certified English translation. Students who have advanced placement credits such as the AP, SAT Subjects exam, CEFR B1, B2, C1, C2, GCE levels (A-levels, O-levels, AS-levels),International baccalaureate (IB), Sijil Pelajaran Malaysia (SPM or STPM), CXC, Abitur from Germany, IGCSE, HKALE, Studentsprof/Menntaskoili and Italian Maturita exam scores must provide these documents during their application. As a result, the students will be eligible for credit (there is a limit of 33 credits can be used for a student's program of study). A request for exception can be submitted for students who have completed more than 30 credits.
6.		International Undergraduate Students who plan to transfer credits from a university or college program from abroad must be from an accredited university, which can be verified via the World Higher Education Database which is located at: http://www.whed.net/home.php which covers 181 countries.
	a.	Students will need to provide course descriptions in English for the Chairs of the various departments to assign transfer credit.
	b.	If an institution is not listed in the World Higher Education Database, the applicant will be required to have all transcripts evaluated by an accredited evaluation firm which can be found at NACES website which is listed at: http://www.naces.org/members.htm. The student's home institution is required to submit originals to the selected evaluation firm. Some of the most commonly used evaluation firms include Educational Perspectives (www.edperspectives.com) WES, Josef Silny, Global Credential Evaluators, and Foreign Academic Credential Service.
	c.	Course descriptions or the syllabi will be required in English for the departments to properly evaluate a student's overseas coursework.
	d.	Upon arrival to TTU, the student must meet with the departments pertaining to their courses to determine if the individual department chairpersons will assign and transfer credit in regards to equivalency of each class.
	e.	The Office of International Education does not award credit and is not responsible for the acceptance or denial of coursework of the academic departments.
7.		Students who plan to apply for an F-1 visa or J-1 visa must also submit a bank document from their personal bank account or the student's parent or sponsor verifying the student has sufficient funds to sponsor their program of study for one year. We recommend the student contact the immigration specialist in the Office of International Education. The letter from the bank must provide proof of the funds on deposit, indicating the availability of the funds and the period for which the funds have been on deposit. Please contact the Office of International Education to determine the minimum balance for issuance of ones I-20. The estimate of fees includes tuition and registration fees, books and supplies, room cost, meal cost, grooming, insurance, recreation and travel, for three semesters or one academic year. TTU offers financial assistance in the form of part-time work on campus at minimum wage with a limit of 20 hours per week (positions are competitive and not guaranteed). International Undergraduate scholarships are available for new undergraduate students, please contact the Director of International Education for the application and requirements. A student must apply and be accepted to be given consideration for any of the Office of International Education's scholarships. Short-term loans are available in emergency cases. Grants or scholarships available for non-immigrant F-1 or J-1 students are extremely limited. Deadline for scholarships from the departments, need-based and academic, is December 15th, the year before the term. December 15th is the deadline for both the fall and spring terms. The Honors program offers scholarships for students with a GPA of 3.5 and a very high ACT or SAT scores. International Undergraduate scholarship deadline is March to May of the year before. Honor's also provides the Honor's Academic Scholarships which is awarded to students who pay out of state tuition.
8.		A housing application for living on campus is available at https://www.tntech.edu/reslife/applications.php. There is a $200 deposit, which is not transferable. Students may request a refund if they know they will not be attending TTU 2 months in advance to their start date. International students are not required to live on campus.
9.		Non-immigrant students graduating who are studying in a US High school must submit the following additional documents to complete their application to TTU: • A photocopy of the passport showing the expiration date and bio page. • A photocopy of their current visa. • A photocopy of the current I-20 or DS2019. • International Advisor's Reference Form will need to be submitted to TTU from your current program advisor (this form is available from TTU's Immigration Specialist.)
10.		Students must also complete and submit student health forms prior to the beginning of classes. Students must provide proof of 2 doses of the Measles, Mumps, and Rubella (MMR) vaccinations/ inoculations and submit a TB skin test with proof of a negative result in writing or x-rays (with proof being TB free) or visit TTU's Health services office to have the required test or inoculations (these tests are not free). The Varicella (Chicken Pox) vaccine is also required for students who cannot show proof of a previous diagnosis as a child or adult. The vaccine requires two inoculations. Students who do not complete the above inoculations/vaccines will not be eligible to register full-time until these exams and inoculations are completed. If students cannot locate their proof of inoculations, they may request a blood test called a titer to determine if the students have the antibodies–thus removing the requirement of proof for MMR, and Chickenpox. The student health forms can be found at the Health Services website at https://www.tntech.edu/healthservices/immunization.php . Students are recommended to send the immunizations to the Office of International Education at PO Box 5093 1 William L Jones Dr room 135 Cookeville TN 38505 2 weeks before classes start to verify what is missing.

11.	International Students will be permitted to enter the USA from abroad at least 30 days prior to the beginning of the semester. TTU is permitted to issue the I-20 only 120 days before the start date of the semester they will attend. An F-I student should not leave home prior to receiving a TTU Certificate of Admission and the I-20 (Certificate of Eligibility). A J-I student should not leave home prior to receiving a TTU Certificate of Admission and the DS 2019 (Certificate of Eligibility for Exchange Visitor Status). Before applying for one's visa, a student must pay the SEVIS fee of $350 at https://www.ice.gov/sevis/i901. The rate is subject to change. Frequently asked questions on the SEVIS fee can be found at https://www.ice.gov/sevis/i901/faq. Students who are initially applying for a visa MUST pay the SEVIS fee (I-901). https://fmjfee.com/i901fee/index.html?content=status/checkStatus. Students presently in the USA do not need to pay the SEVIS fee. These documents, as well as the sponsor's financial letter must be presented to the certifying officer at the American Consulate General's office in order to obtain an F-I or J-I visa.

Admissions

Requirements for International Students on Arrival at TTU

1. **ENGLISH PLACEMENT TEST.** All international students whose native language is not English are required to take the Placement Exam if they have not taken the ACT or SAT exam. This includes English as a Second Language (ESL) and/or English composition. The cost of the English placement test is $20 for the initial test and $20 for any retakes thereafter. To take the English Placement test, a student must provide identification. Students that score below the established norm for placement in the Learning Support coursework may not take regular courses which require reading and writing (e.g. psychology, US History and Literature) until their English is at an acceptable level thus the student will be required to enroll in FLS International English courses.
2. **ENGLISH AS A SECOND LANGUAGE (ESL).** Unless specifically exempted by the Placement exam, all international students are required to take UNIV 1100 Learning Support for Writing I [taken concurrently with ENGL 1010 Writing I] and UNIV 1010 College Reading Improvement unless they provide an ACT or SAT score which exempts them from taking the exam; these classes must be completed during their first two semesters at TTU. International students will take ESL courses concurrently-FLS International center in the discipline which is recommended based on the Placement Exam concurrently with their major program of study courses. UNIV 1100 Learning Support Lab for Writing I is to be taken concurrently with ENGL 1010; UNIV 1010 College Reading Improvement is a pre-requisite to HIST 2010 and HIST 2020.
3. **PLACEMENT TEST.** The Math Placement Exam will be administered to first-semester undergraduate international students who score less than 19 in the math portion of the ACT or less than 430 in the math portion of the SAT prior to enrollment. Some undergraduate international students are required to take the English and reading portions of the Placement Exam after passing the FLS International English course. The purpose of these tests is to validate previous math and English study and/or placement in math and English courses. These tests are required by TTU's governing body. The Math Placement Exam is also used by the Math Department for placement of students into appropriate mathematics classes, including Pre-calculus and Calculus I.
4. **AMERICAN HISTORY.** All undergraduate international students who have not completed one unit in American history at the secondary school level or six hours of American history in previous college work must enroll in American history the first semester in residence and continue in consecutive semesters until they have earned six hours of American history (HIST 2010 and HIST 2020), if the student is exempted from language support such as UNIV 1010 College Reading Improvement; UNIV 1100 Learning Support for Writing I; or FLS International Language support in reading and writing.

International students who are required to take FLS International coursework must enroll in American history upon completion of the ESL courses provided by FLS International and UNIV1010 College Reading Improvement and continue in consecutive semesters until they have earned six hours in American history (HIST 2010 and HIST 2020).

All international students should report to the Office of International Education upon arrival at TTU. The staff will assist the international student with checking into the residence hall, depositing checks, registration, etc., at the beginning of the semester. International services and programs are administered in this office.

All non-immigrant F-I and J-1 international students will be required to purchase and maintain health insurance. The student's individual or TTU coverage must include medical expenses for accident, illness, evacuation, and repatriation.

International students who wish to apply for admission to the Graduate School should address correspondence to the Office of Graduate Studies and should use the Graduate School application at www.tntech.edu/eo/.

Admissions

Study Abroad

The Study Abroad Office at Tennessee Tech is a comprehensive resource for study, faculty-led programs, service-learning opportunities, intern, and volunteer programs worldwide. Through collaboration and individual attention, we continue to promote confidence, development, understanding, and responsibility in the global community. We offer a full range of advising and support services to students, including program selection, academic planning, financial planning, registration, credit, cultural adjustment, travel planning, and reentry. A variety of program options have been developed to address the diverse needs of students. Programs vary in length, level, academic focus, teaching format, language requirements, cost, and degree of independence demanded of the participant. The Study Abroad Office works with many departments, administrative offices and other units within the University to determine appropriate study abroad options for each major and minor, and to help students earn credit toward their degree through study abroad. With planning, students in any major can study abroad and fulfill degree requirements. Also, TTU offers a fantastic travel reimbursement program to every student who participates in our study abroad programs that meets the very reasonable criteria. In addition, most forms of financial aid and scholarships can be used towards study abroad programs, and TTU has several partner universities abroad that offer scholarship funding.

Information on all study abroad opportunities open to TTU students is available in the Study Abroad Office, Derryberry Hall Room 434, phone 931- 372-3659, email studyabroad@tntech.edu website: www.tntech.edu/studyabroad There is a course sequence to register for these study abroad courses (with a permit). See STUDY ABROAD in the course description section.

Admissions

Admission to the Graduate School

Applicants for admission to the Graduate School should apply directly to the Associate Vice President of Research and Graduate Studies. A Graduate Catalog is available online at www.tntech.edu/gcatalog

Admissions

Transfer of Credit

Students may not pick and choose the credit that they wish to transfer. Coursework transferred or accepted for credit toward an undergraduate degree must represent collegiate coursework relevant to the degree, with course content and level of instruction resulting in student competencies at least equivalent to those enrolled in the institution's own undergraduate degree programs. Transfer students whose transcripts show satisfactory completion of the General Education program prescribed by the Tennessee Board of Regents' Policy on Degree Requirements shall be exempted from taking additional courses that normally are a part of the general education requirements of the University, except where teacher certification regulations, major field requirements, or professional accreditation agencies require the inclusion of such courses in the program of studies.

Transfer Credit - Advanced Placement. Advanced placement credit awarded by an institution that has requirements different from those at TTU will be accepted if the student has completed the next successive course in the sequence with at least a grade of "C."

Articulation Agreements With Community Colleges. Tennessee Tech has entered into articulation agreements with the following community colleges: Chattanooga State, Cleveland State, Columbia State, Motlow State, Northeast State, Pellissippi State, Roane State, Volunteer State and Walters State. These transfer programs lead to admission with junior standing at Tennessee Tech after receiving the associate degree by the specified community college. For further information, contact the Director of Operations.

Advanced Standing. Students who have attended another collegiate institution may not enter as beginning freshmen. Transcripts of all work attempted at other institutions must be sent by those institutions prior to admission and will be evaluated to determine the student's standing at Tennessee Technological University. Failure to submit any transcript of previous work will be considered as falsification of the record. The acceptance of transfer credit by the University confers advanced standing upon the transfer student.

The student transferring from another institution or requesting advanced standing for educational experiences in the Armed Forces must meet the requirements of this institution for graduation regardless of the number of credits submitted for advanced standing. In instances where there is insufficient information available to evaluate course content and level of instruction for work completed at another institution prior to enrollment, the applicant will be given a tentative evaluation and the work from such institutions will not be entered on the records until the student's transfer credits have been validated.

Advanced standing will not be granted for credit from an institution which is not a recognized college or university. An alternate plan for transfer students in this category permits the establishment of 14 hours of credit by special examination as provided below. See also, Advanced Placement with Credit.

Community College Credits. A student transferring credit from a two-year institution must complete a minimum of 50 semester hours at a senior institution. Residency and other degree requirements of Tennessee Tech must be met.

Credit in Religious Studies. Tennessee Tech reserve the right to limit transfer credit in religious studies to a maximum of 12 semester hours.

DANTES Examinations - Defense Activity for Non-Traditional Education Support. Students may earn college credit for DANTES examinations administered by the Educational Testing Service and evaluated using ACE Guidelines. Credit through DANTES examinations may not be earned for courses in which previously or currently enrolled, including courses failed in residence, for courses in which credit already has been earned in coursework at a higher level, or for both the DANTES examination and its equivalent course. Students wishing specific information on transferability regarding certain DANTES exams must check with the academic unit pertaining to the subject of the exam. DANTES examination scores must be sent to the Office of Admissions on an official transcript form sent directly from the Educational Testing Service (ETS). See the Director of Operations for further information on DANTES tests.

Educational Experiences in the Armed Forces. In evaluating armed services credit, Tennessee Technological University follows the recommendations of the Guide to the Evaluation of Educational Experience in the Armed Services, published by the American Council on Education, if there is equivalent course content at Tennessee Tech. Servicemembers should be prepared upon entrance to present to the University their discharge or service records (Form DD-214), or a transcript of credits earned while in the armed services, for evaluation. Students who have had 4 or more months of active service in the U.S. armed forces may be given credit not to exceed the 8 hours for the military science course. A student requesting credit for prior ROTC training or active Military Service must obtain certificate from the Department of Military Science. When appropriate, the allowable credit may be given in freshman and sophomore physical education. Tennessee Technological University is a member of Servicemembers Opportunity Colleges and participates in the Concurrent Admissions Program (ConAP).

International Transfer Credit.

Any undergraduate student (international, domestic, or permanent resident) with transfer course work from an institution abroad, must follow the following steps to receive transfer work: The student's college or university must be reviewed by the Office of International Programs to substantiate that the university is listed via the World Higher Education Database (WHED) at https://www.whed.net/.

In the event the institution of higher education is not listed in WHED, the students will be required to apply for a professional evaluation to receive credit. The student will be required to have coursework evaluated by a member of National Association of Credential Evaluation Services (NACES). The department chair of the course's discipline will review to determine if the course is equivalent. Tennessee Tech will not award credit from any unlisted WHED institution without the evaluation from a NACES member. To appeal credit for a specific course offered by TTU, the course description must be supplied in English to the Office of Admissions or International Programs.

Tennessee Tech students who participate in Tennessee Tech's Study Abroad program are exempt from the NACES (National Association of Credential Evaluation Services) evaluation. A list of accredited providers can be found here.

Tennessee Tech will accept and award credit for the AS and A-Level certificates. A student may earn credit for satisfactory scores which are equivalent to a US grade of C or better on examinations offered by Cambridge, Edexcel, IGCSE, and its equivalent in many other nations: Abitur, CXC, WASC, NECO, Matura, Diplome de Baccalaureate, VG, MVG, SPM, STPM, V1, V2, V3, Baccalaureate, Matriculation Exam, and AICE diplomas.

Credit will be awarded for courses taken at universities which have a Memorandum of Understanding with Tennessee Tech, provided the course is listed in the official articulation table. This official articulation table is developed with all course work evaluated by the university faculty and is part of the articulation agreement between the two institutions.

Credit Established by Professional Certificate or Non-Credit Courses. Academic credit may be awarded on occasion for professional certification or non-credit courses. Requests for the award of such credit must be submitted to the departmental chairperson of the department in which credit is being sought. As the executor of departmental policy, he or she will evaluate the requests and submit a recommendation to accept or reject them to the college dean and Office of Records for final approval.

Establishment of Credit by Special Examination. A student who has had sufficient training or experience in a subject to merit the establishment of credit by comprehensive examination but who has not enrolled in the same, comparable, or higher level course at the college level may request the privilege of taking a special examination prepared by the department involved. The request for special examination is secured from the Office of Records and Registration, and the required signatures of approval are obtained, after which the student pays the special examination fee of $20.00 per semester hour to the Business Office. The results of such an examination will be recorded on the student's permanent record. Not more than 14 semester hours may be established by special examination. To establish credit in this manner, a student must be enrolled in the University. Only grades of A, B, C, D and F will be assigned.

Correspondence, Extension Work and Study at Other Institutions. A student who wishes to enroll for correspondence courses, extension work, or residence study at another institution with the intention of transferring this credit to Tennessee Technological University should have prior written approval from the Dean of the school or college in which the student proposes to graduate. The appropriate request form is obtained from the Office of Records and Registration. Work taken without such approval may be presented for evaluation but will be subject to approval or disapproval. Official transcripts should be furnished immediately upon the completion of such work. Correspondence credit in Freshman English and courses which include laboratory work will not be accepted.

A student in residence at Tennessee Technological University who wishes to take correspondence work from another institution while enrolled at the University will be permitted to do so only if he or she is unable to arrange a schedule for the course on campus. The student needs to file with the Office of Records and Registration a Request for In-Residence Study at Another Institution approved by the advisor and the chairperson of the department in which the work is offered on campus before enrolling for the work. Such courses taken off campus are counted as part of the student's load and are subject to the regulations concerning load.

Not more than 60 semester hours of earned towards a baccalaureate degree by Prior Learning Assessment (PLA), including, but not limited to, Advanced Placement (AP), CLEP, International Baccalaureate (IB), special examination, correspondence, portfolio credit or any combination of these. Credit granted in the formal AP program may be more extensive. Not more than 4 semester hours of correspondence and extension credit in professional education courses may be counted toward graduation or teacher certification.

UG Requirements

Each student is personally responsible for completing all requirements established for his or her degree by the University, college, and department. It is the student's responsibility to inform himself or herself of these requirements. A student's advisor may not assume these responsibilities. Any substitution, waiver, or exemption from any established requirement or academic standard may be accomplished only with appropriate approval.

In addition to the requirements listed below, other requirements for a given degree and major may be determined by consulting the portion of the catalog devoted to the particular college or school offering the degree. International students must fulfill all requirements but should consult the special provisions described in Admission of International Students: Undergraduate Study of this catalog.

1. **General Education Requirements:** 41 semester hours selected from General Education Courses in 6 categories.
   General education, the foundation of the undergraduate collegiate experience, encompasses the knowledge, skills, attitudes, and values that are obtained from studies in communication, mathematics, social and natural sciences, and humanities. General education is unbounded by academic disciplines and honors the relationships among bodies of knowledge. General education develops the cognitive process of reasoning essential for effective functioning and self-directed learning. General education provides opportunities for the student:
   - to think logically, critically, and creatively;
   - to communicate effectively both orally and in writing;
   - to read extensively and perceptively;
   - to explore moral and aesthetic values, social relationships, and critical thinking through the humanities;
   - to understand the importance of key social institutions, ethics and values, and how individuals influence events and function with others in these institutions throughout the world;
   - to appreciate creative and aesthetic expressions along with their impact on individuals and cultures;
   - to express, define, and logically explore questions about the world through mathematics;
   - to use computer technology to communicate and to solve problems;
   - to use acquired facts, concepts, and principles of the physical and natural sciences in applying the scientific process to natural phenomena;
   - to perceive the importance of wellness and values in human life;
   - to manifest a commitment to life long learning.

These outcomes will be acquired in the general education requirements with additional depth obtained in the curriculum of the major and through participation in extracurricular activities.
The Tennessee Tech University general education core curriculum consists of forty-one (41) semester hours for the baccalaureate degrees. The courses comprising the general education curriculum are contained within the following subject categories:

Baccalaureate Degrees*

Communication		9 hours**
Humanities and/or Fine Arts (at least one course must be in literature)		9 hours
Social/Behavioral Sciences		6 hours
History		6 hours***
Natural Sciences		8 hours
Mathematics		3 hours
	Total	41 hours

*Foreign language courses are an additional requirement for Bachelor of Arts (B.A.) degrees. The B.A. degree requires proficiency in a foreign language equivalent to completion of two years of college-level work.
**Six hours of English Composition and three hours in English oral presentational communication are required.
***Students who plan to transfer to Tennessee public universities should take six hours of United States History (three hours of Tennessee History may substitute). Students who plan to transfer to University of Tennessee System universities or to out-of-state or private universities should check requirements and take the appropriate courses.
Although the courses designated by Tennessee public institutions to fulfill the requirements of the general education subject categories vary, transfer of the courses is assured through the following means:

- Upon completion of an A.A. or A.S. degree, the requirements of the lower-division general education core will be complete and accepted by a public Tennessee university in the transfer process.
- If an A.A. or A.S. is not obtained, transfer of general education courses will be based upon fulfillment of complete subject categories. (Example: If all eight hours in the category of Natural Sciences are complete, then this “block” of the general education core is complete.) When a subject category is incomplete, course-by-course evaluation will be conducted. The provision of block fulfillment pertains also to students who transfer among public Tennessee universities.
- Institutional/departmental requirements of the grade of “C” will be honored. Even if credit is granted for a course, any specific requirements for the grade of “C” by the receiving institution will be enforced. In certain majors, specific courses must be taken also in general education. It is important that students and advisors be aware of any major requirements that must be fulfilled under lower-division general education.

2. **Special course requirements:**
    1. English is recommended to be taken each semester, except the summer, until this requirement is completed. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
    2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
    3. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.
    4. Completion of the curriculum for the major subject and degree chosen, as outlined under the department in which the major is offered. A major is outlined under the chosen curricula and must contain at least 6 hours of 3000 or 4000 level in residence at Tennessee Technological University.
    5. A minimum of 120 semester hours including 36 hours of 3000 and 4000 level upper-division credit approved courses are required for a baccalaureate degree. Not more than 60 semester hours may be earned by correspondence, workshop or extension, or by a combination of these and special examination. Not more than 12 semester hours in music ensembles, Physical Education 1010-1990, and Military Science activity courses may be counted toward graduation. (Not more than 12 semester hours of credit in activity courses may be counted toward the Bachelor’s degree requirement.) A student transferring credit from a two-year institution must complete a minimum of 50 semester hours at a four-year institution.
    6. All courses required for the major must be passed with at least a “D, ” unless otherwise specified, on the final attempt if the student does not withdraw from the course.
    7. A general quality point average of 2.0 (C) and a general average of 2.0 in the courses offered in the major subject. Transfer students also must attain at Tennessee Technological University a general average of 2.0 and an average of 2.0 in the courses taken in the major subject.
    8. **Residence:** To meet the residence requirements, a student must complete at least 25 percent of the credit for the degree requirements including a minimum of 24 semester hours of 3000 and 4000 level course credit at Tennessee Technological University.
    9. Students who are majoring in another field but are taking course work in the College of Business must limit credit for the degree in business courses to 30 hours for the 120 hour degree as limited by the Association to Advance Collegiate Schools of Business (AACSB).
    10. **Definition of Minors:** A minor is 15 hours. A student may elect to complete more than one minor. A minor in any specific discipline in the College of Arts and Sciences must include 6 Upper Division hours. A minor in English may not include ENGL 1010 or ENGL 1020. A minor in Mathematics must include MATH 1910 and MATH 1920 and it may not include a course numbered below MATH 1910.
        A minor for Arts and Sciences students requires the completion of 15 semester hours, including 6 upper-division hours, in a coherent program of study. The criterion of coherence may be met in either of two ways: (1) by following the minor curriculum prescribed by any department or college at TTU, so long as it includes at least 6 upper-division hours; (2) if such a minor curriculum is not available in the chosen department or college, by taking the 15 semester hours, including 6 at the upper division, in a single discipline—i.e., normally, courses with the same course

prefix, but students should check with the department offering the minor before assuming this. Exception: A minor in physics will consist of at least 15 hours of coursework including PHYS 2110, PHYS 2120, PHYS 2420, PHYS 2920 and one upper division physics course. A minor in Art or Music may contain no more than 4 hours of individual instruction, ensemble, or activity courses.

11. **Exams for teaching licensure:** All students, irrespective of the College or School in which enrolled, who will have completed licensure requirements for teacher education as a part of the total hours required for graduation must consult with the Office of Teacher Education for a list of the appropriate state-required specialty area examination(s).
12. **Catalog to follow:** To graduate, a student meets the requirements of the catalog effective at the time he or she entered the curriculum, provided graduation is within seven years from that entrance date, or the catalog in effect at the time of graduation. If a student is out of the university at least one full year, the student must meet with the department chairperson upon re-entering into the program to determine which catalog to follow. “Catalog” refers specifically to degree requirements in this section. Degree requirements for all students, regardless of date of enrollment in their curricula, may be subject to change prior to the publication of a new catalog when the implementation of curricular changes is necessary to maintain quality programs. The designated catalog for graduation must be approved by the departmental chairperson if different from the one in effect when a student entered the curriculum or the catalog in effect at the time of graduation. Students entering a curriculum in the summer are expected to follow the catalog for the next academic year. A Tennessee public community college student may select the Tennessee Tech Catalog effective at the time he or she enters the community college if that student enrolls at Tennessee Tech within six years and continues in the major chosen while in community college.
13. Credit which was earned earlier than ten years prior to the proposed date of graduation will be subject to review and approval by the academic department of the student’s major.
14. **Filing of application for Graduation:** All candidates for an undergraduate degree must file an application for graduation no later than the deadlines provided:
15. For students planning to graduate in the spring semester, the graduation application must be filed no later than September 1 of the previous year.
16. For students planning to graduate in the summer semester, the graduation application must be filed no later than February 1 of that year.
17. For students planning to graduate in the fall semester, the graduation application must be filed no later than June 1 of that year.
18. **Completion of requirements policy:** With the exception of grades for courses taken at another institution during the student’s final semester before graduation (“transfer grades”), all requirements for graduation, including but limited to substitution forms, grade changes, and requests for exception, must be received by the Registrar’s Office (Jere Whitson 221) no later than two (2) days prior to graduation date. In addition, all transcripts related to transfer work must be received by the Registrar’s Office no later than two (2) weeks after the graduation date. The receipt of such transcripts more than two (2) weeks after the graduation date will result in the student’s graduation occurring at the end of the next semester.
19. Tennessee Tech may make reasonable academic adjustments to degree requirements for qualified students with disabilities, as determined by joint agreement of the Accessible Education Center and the Office of Enrollment Management and Career Placement. Students with a disability requiring academic adjustments and accommodations must contact the Accessible Education Center.
20. Students may be required to take one or more tests designed to measure general education achievement and achievement in major areas as a prerequisite to graduation, for the purpose of evaluation of academic programs. Students should sign up as indicated. Unless otherwise provided for any individual program no minimum score or level of achievement is required for graduation. Participation in testing may be required of all students in selected programs, and of students selected on a sample basis.

Commencement

To be eligible to participate in any commencement ceremony you must meet the following requirements:

- Have applied for graduation for that semester by the application deadline
- Be enrolled in **all** courses to complete the degree requirements during the week of final exams

Flight Foundations

TTU Courses Recommended for the General Education Core

Flight Foundations, Tennessee Tech's new general education program, will go into effect with the FALL 2026.

Flight Foundations Vision

Through our Flight Foundations general education curriculum, Tennessee Tech provides a pathway to tomorrow’s opportunities. We envision a future where our students, empowered by a foundation of critical thinking, cultural awareness, and creativity, are prepared to navigate and shape the challenges and innovations of tomorrow. Flight Foundations is the cornerstone of a future where our graduates lead with confidence, adaptability, and a commitment to lifelong learning.

COMMUNICATION (9 HOURS)	
English Composition (6 hours)	
ENGL 1010 - English Composition I	3
ENGL 1020 - English Composition II	3
English oral presentational communication (3 hours)	
COMM 2025 - Fundamentals of Communication	3
PC 2500 - Communicating in the Professions	
NURS 2600 - Communication	

QUANTITATIVE REASONING AND ANALYSIS (3 HOURS)	
MATH 1010 - Math for General Studies	3
MATH 1420 - Geometry Concepts for Teachers	3
MATH 1530 - Introductory Statistics	3
MATH 1630 - Finite Mathematics	3
MATH 1710 - Pre-calculus Algebra	3
MATH 1720 - Pre-calculus Trigonometry	3
MATH 1730 - Pre-calculus Mathematics	5
MATH 1830 - Applied Calculus	3
MATH 1845 - Technical Calculus	3
MATH 1904 - Extended Calculus IA	3
MATH 1910 - Calculus I	4

HISTORICAL FOUNDATIONS (6 HOURS)	
HIST 2010 - Early United States History	3
HIST 2020 - Modern United States History	3

HUMANITIES AND CULTURAL EXPRESSION (6-9 HOURS)	
ART 1035 - Introduction to Art	3
ART 2000 - Art History Survey I	3
ART 2020 - Art History Survey II	3
ART 3170 - History of Design	3
ART 3190 - Medieval Art History	3
ENGL 2130 - Topics in American Literature	3
ENGL 2235 - Topics in British Literature	3
ENGL 2330 - Topics in World Literature	3
ENGL 2400 - Intro to Creative Writing	3
ENGL 2550 - Language and Identity	3
FLST 2520 - The Cultures and Peoples of North Africa	3
FREN 1010 - Elementary French I	3
FREN 2510 - France: Culture and Civilization	3
GERM 1010 - Elementary German I	
GERM 2520 - German Culture and Civilization	3
HIST 1310 - Science and World Cultures	3
HIST 2210 - Early Western Civilization	3
HIST 2220 - Modern Western Civilization	3
HIST 2310 - Early World History	3
HIST 2320 - Modern World History	3
MUS 1030 - Music Appreciation	3
PHIL 1030 - Introduction to Philosophy	3
PHIL 2250 - Introductory Ethics	3
RELS 2010 - Introduction to Religious Studies	3
SPAN 1010 - Elementary Spanish I	3
SPAN 1015 - Spanish for Health Services	3
SPAN 2510 - Spanish Culture and Civilization	3
SPAN 2550 - Latin American Culture and Civilization	3
THEA 1030 - Introduction to Theatre	3

SOCIAL AND BEHAVIORAL SCIENCES (6 HOURS)	
ECON 2010 - Principles of Microeconomics	3
ECON 2020 - Principles of Macroeconomics	3
ESS 1100 - Introduction to Environmental Studies	3
EXPW 2015 - Concepts of Health and Wellness	3
GEOG 1012 - Cultural Geography	3
GEOG 1130 - Geography of Natural Hazards	3
JOUR 1110 - Media and Social Institutions	3
NURS 2400 - Introduction to Global H	3
POLS 1030 - American Government	3
PSY 1030 - Introduction to Psychology	3
SOC 1010 - Introduction to Sociology	3
WGS 2010 - Introduction to Women and Gender Studies	3
SCIENTIFIC REASONING (4-8 HOURS)	
ASTR 1010 - Introduction to Modern Astronomy	4
ASTR 1020 - Introduction to Modern Astronomy	4
BIOL 1010 - Introduction to Biology	4
BIOL 1020 - Diversity of Life	4
BIOL 1090 - Concepts of Biology	4
BIOL 1113 - General Biology I	4
BIOL 1123 - General Biology II	4
BIOL 2010 - Human Anatomy and Physiology I	4
BIOL 2020 - Human Anatomy and Physiology II	4
BIOL 2310 - General Botany	4
CHEM 1010 - Introductory Chemistry I	4
CHEM 1020 - Introductory Chemistry II	4
CHEM 1090 - Concepts of Chemistry	4
CHEM 1110 - General Chemistry I	4
CHEM 1120 - General Chemistry II	4
CHEM 1410 - Forensic Chemistry	4
CHEM 1710 - Culinary Chemistry	4
GEOG 2100 - Weather and Climate Systems	4
GEOL 1040 - Physical Geology	4
GEOL 1045 - Earth Environment, Resources and Society	4
GEOL 1090 - Concepts of Geology	4
PHYS 1090 - Concepts of Physics	4
PHYS 2010 - Algebra-based Physics I	4
PHYS 2020 - Algebra-based Physics II	4
PHYS 2110 - Calculus-based Physics I with Lab	4
PHYS 2120 - Calculus-based Physics II with Lab	4

FINANCIAL LITERACY OR DIGITAL LITERACY	
CSC 2220 - Data Science and AI for Everyone	3
CSC 2570 - Introduction to Cybersecurity and Privacy	3
DLED 2000 - Digital Literacy: Media, Information, and Design	3
DLED 2000 - Digital Literacy: Media, Information, and Design	2
DLED 2000 - Digital Literacy: Media, Information, and Design	1
DS 2810 - Computer Applications in Organizations	3
ENGL/PC 2600 - Digital Literacy	3
FIN 2000 - Personal Finance	3
HEC 3011 - Consumer Economics	3
JOUR 1500 - Media Literacy in a Digital Age	3
MUS 2080 - Digital Creativity: Making Music with Digital Tools	3
PRST 3130 - Speaking Their Language: Building Literacy in the Tools of Digital Design	3

Majors

Declaring a Major: Each student entering Tennessee Tech will select a major subject or field of interest. He or she is expected to complete the curriculum for the major subject and degree chosen, as outlined under the department in which the major is offered, following the requirements in the University catalog effective at the time he or she enters the chosen curriculum. A student who transfers to another institution and later returns to Tennessee Tech will follow the catalog in effect when he/she returns to the University.

Non-Degree Seeking Students Students who do not wish to earn a degree from TTU but who only register for classes on a class-by-class basis, will not have a designated major. These students may not be eligible for Federal Financial Aid.

Special Considerations for Nursing Majors The School of Nursing offers one major, nursing, which leads to a Bachelor of Science in Nursing. The nursing major is also known as the Upper Division Professional Nursing (NURS) program. Students must be admitted to the NURS major, and as such cannot declare this major without applying and being admitted. Lower-Level Nursing refers to the first three semesters of the nursing curriculum. Lower-level Nursing is a Career Track for students who wish to gain admission to the NURS program. Students who intend to apply for the NURS program are encouraged to declare a major in Interdisciplinary Studies. Those students would either complete the degree in Interdisciplinary studies or change their major to nursing upon acceptance into the NURS program.

Second Major A student may qualify for an additional major or majors by the completion of all prescribed requirements in the specified additional curriculum or curricula.

Changing a Major The major/minor/concentration/program may be changed by meeting with the new department of the major s/he wishes to declare. The change is initiated by the new department in Eagle Online, which both the student and former advisor will acknowledge. From there, the Change of Major is automated through the Office of the Registrar. For more information, contact the Office of the Registrar at Registrar@tntech.edu or at 931.372.3317.

Declaring a Career Track Tennessee Tech designates several “career tracks” to support students who intend to enroll in professional schools. Career tracks are not “majors” and do not lead to a degree on their own. Career Tracks assist with pre-professional advising and guiding students towards their career interest. Majors, concentrations and options are provided for each career track below and are based on common pathways that help students meet the majority of the pre-requisites required by professional schools. Fulfillment of the requirements of the suggested major leads to a baccalaureate degree at Tennessee Tech. A major in Interdisciplinary Studies may be appropriate for students who intend to graduate with a baccalaureate degree, but do not wish to declare one of the majors outlined below. Students who wish to declare a non-suggested major should contact the appropriate professional career-track office to ensure that they will be able to complete the coursework necessary for admission to professional graduate schools through fulfillment of the requirements of their major.

Each career track provides a student with a curriculum guide that is designed to satisfy the minimum requirements for admission to various types of professional schools. Many, but not all, professional schools require that students obtain a degree prior to admission. Students considering dental hygiene, medical technology, or pharmacy school should be in a major that leads to a degree even though there is a possibility they may transfer to one of those professional programs. To declare a career track, students should contact their academic advisor. The academic advisor will be able to assist with declaring a Career Track and guide the student regarding courses and degree requirements.

Participation in a career track does not guarantee students admission to professional schools, nor are students who intend to attend professional school required to join a career track. Students should carefully review the requirements of the professional school to which they intend to apply.

Financial aid requirements may not permit such students to receive financial aid for courses that are not part of their major program of study or would lead to the student going beyond the permissible number of elective credits. Some students may choose to only complete coursework designated in each career track without seeking a degree from Tennessee Tech. These students may not be eligible to receive financial aid.

CAREER TRACK	CODE	INTENDED FOR STUDENTS SEEKING ADMISSION TO	SUGGESTED MAJOR(S)	SUGGESTED CONCENTRATION(S)
Interest Nursing	INRS	Tennessee Tech's Bachelor of Science in Nursing Program (BSN)	*For students seeking admission to the Upper Division Professional Nursing Program ("NURS"), which is a nursing major that culminates in a BSN, an Interdisciplinary Studies major is suggested as the initial major. Students who are accepted into the NURS program may then transfer to the nursing major.*	
Athletic Training	PAT	Master's-level program in Athletic Training	Exercise Science	Pre-Athletic Training
Dental Hygiene	DH	Baccalaureate program in Dental Hygiene	Biology Human Ecology Interdisciplinary Studies	Cellular & Molecular Health Sciences Nutrition and Dietetics Student Defined (work with advisor)
Dentistry	DEN	Doctorate program in Dentistry (D.M.D. or D.D.S.)	Biology Chemistry Interdisciplinary Studies	Cellular & Molecular Health Sciences Biochemistry Health Science Student Defined (work with advisor)
Health Information Management	HIM	Master of Health Informatics and Information Management Program	Interdisciplinary Studies	Interdisciplinary Studies
Law	LAW	Law School (J.D.)	Tennessee Tech offers a Legal Studies concentration in its Political Science major, but there is no required or best major for admission to law school, or any pre-requisite courses.	
Medical Terminology	MDT	Baccalaureate program in Medical Technology	Biology Chemistry	Cellular and Molecular Health Sciences Biochemistry Health Sciences
Medicine	MED	Doctoral program in Medicine (M.D. or D.O.)	Biology Chemistry Human Ecology Interdisciplinary Studies Psychology	Cellular and Molecular Health Sciences Biochemistry Health Science Nutrition and Dietetics Student Defined (work with advisor)
Occupational Therapy	OPT	Masters or Doctoral program in Occupational Therapy	Biology Exercise Science Human Ecology Psychology Interdisciplinary Studies	Health Sciences Pre-Occupational Therapy Child Life/Nutrition and Dietetics Student Defined (work with advisor)
Optometry	OPT	Doctoral program in Optometry (O.D.)	Biology Chemistry Interdisciplinary Studies	Cellular and Molecular Health Sciences Biochemistry Health Science Student Defined (work with advisor)
Pharmacy	PHAR	Doctoral program in Pharmacy (PharmD)	Biology Chemistry Human Ecology Interdisciplinary Studies	Cellular and Molecular Health Sciences Biochemistry Health Science Nutrition and Dietetics Student Defined (work with advisor)
Physical Therapy	PT	Doctoral program in Physical Therapy (DPT)	Biology Exercise Science Human Ecology Interdisciplinary Studies Psychology	Health Sciences Pre-Physical Therapy Nutrition and Dietetics Student Defined (work with advisor)
Physician Assistant	PA	Masters program in science or Medical Science focusing on Physician Assistant Studies	Biology Chemistry Exercise Science Human Ecology Interdisciplinary Studies	Cellular and Molecular Health Sciences Biochemistry Health Science Pre-Physician Assistant Nutrition and Dietetics Student Defined (work with advisor)
Veterinary Medicine	VETM	Doctoral program in Veterinary Medicine (D.V.M.)	Animal Science Wildlife and Fisheries Science	Animal Science/Pre-Veterinary Science Conservation Biology/Fisheries Science/Wildlife Science

CAREER TRACK CONTACTS		
Law	Dr. Lori Maxwell	lmmaxwell@tntech.edu
Veterinary Medicine	School of Agriculture	agriculture@tntech.edu
Nursing	Benjamin Clark	bclark@tntech.edu
Medicine, Dentistry, Pharmacy, Optometry, Physician Assistant, Dental Hygiene, Medical Terminology, Health Information Management, Occupational Therapy, Physical Therapy	Ann Marie Carrick	acarrick@tntech.edu
Athletic Training, Occupational Therapy, Physical Therapy, Physician Assistant	Patrick Mannle	pmannle@tntech.edu

Minors

The awarding of a minor at Tennessee Tech requires the successful completion of a minimum of 15 hours of specified course work in the relevant area of discipline, in addition to fulfilling the requirements for a degree detailed in Policy 260: Requirements for a Baccalaureate Degree and Graduation. Successfully completed courses may simultaneously fulfill a student's degree requirements and the requirements for a minor.

- A student may elect to complete multiple minors; however, no more than two minors will appear on the student's academic transcript.
- Additionally, some colleges and programs have the following conditions that apply to the specified minors:
- A minor in any specific discipline in the College of Arts and Sciences must include 6 Upper Division hours.
- A minor in Art or Music may contain no more than 4 hours of individual instruction, ensemble, or activity courses.

The specific course requirements for each minor offered at Tennessee Tech may be found in the portion of the applicable Undergraduate Catalog addressing the relevant academic area or discipline. A list of available minors and the ownership of programs is available below.

A	B	C
Accounting Minor	Biology Minor	Caregiving Minor
Agriculture Minor	Business Information Technology and Analytics Minor	Chemistry Minor
Appalachian Studies Minor	Business Management Minor	Coaching Minor
Aquatics Minor	Business Minor	Communication Studies Minor
Art History Minor		Computer Science Education (CSED) Minor
Astronomy Minor		Computer Science Minor
		Criminal Justice Minor
		Cyber Crime, Law, and Society Minor

D	E	F
Digital Humanities Minor	Early Childhood Education (ECED or ECSP) Minor	Fine Arts Minor
	Education Minor	Foundations of Education (FOED) Minor
	Electrical and Computer Engineering Minor	FREN-MIN - Missing program
	Elementary Education (ELED) Minor	
	Engineering Technology Minor	
	English Minor	
	English as a Second Language (ESLP) Minor	
	Environmental Engineering Minor	
	Environmental Studies Minor	
	Environmental Sustainability Minor	
	Event Planning Minor	
	Exercise Science Minor	

G	H	I
General Engineering Studies	Health and Wellness Minor	Industrial and Systems Engineering (ISE) Minor
Geography Minor	History Minor	International Business Minor
Geology Minor	Honors Minor	International Studies Minor
	Honors Minor	
	Housing and Design Minor	
	Human Ecology Minor	
	Human Resource Management Minor	
	Humanities Minor	

J	K	L
Journalism Minor		Leadership Minor
		Leadership and Military Science Minor
		Live Audio Arts and Sciences Minor

M	N	O
Marketing Minor	Natural Resources Minor	Operations, Logistics and Supply Chain Management Minor
Materials Science and Engineering Minor		
Mathematics Minor		
Middle Grades Minor		
Music History Minor		
Music Performance Minor		
Music Technology Minor		
Music Theory and Composition Minor		

P	Q	R
Parks and Protected Areas Minor		Race and Ethnic Studies in the United States (US) Minor
Philosophy Minor		Reading (READ) Minor
Physics Minor		Religious Studies Minor
Political Science Minor		
Professional and Technical Communication Minor		
Project Management for Professionals Minor		
Psychology Minor		

S	T	U
Science Minor	Theatre Minor	
Secondary Education (SEED) Minor		
Social Science Minor		
Social Work Minor		
Sociology Minor		
Spanish Minor		
Special Education (SPED) Minor		
Studio Art Minor		

V	W	X	Y	Z
	Wildlife Fisheries Science Minor			
	Women's and Gender Studies Minor			

Second UG Degree

A student may qualify for a second baccalaureate degree from Tennessee Technological University by completing all prescribed requirements in the specified curriculum for the second degree and with the approval of the chairperson of the department offering the second degree.

A person who has a baccalaureate degree from another institution* and who, in addition, desires a baccalaureate degree from Tennessee Technological University must fulfill all requirements for a second degree as stated in the previous paragraph and must complete a minimum of 25 percent of the credit for the degree in residence. TTU general education requirements will be considered met, with the following exceptions:

1. Any general education courses that are required for progression in the major program must be completed.
2. In addition, if the first baccalaureate degree is from a non-English-speaking university, the student must pass the reading and writing placement exam or complete all additional language support course work needed in the necessary discipline before enrolling at TTU. Depending on the placement exam results, students may be required to complete READ 1100 as a co-requisite for ENGL 1010 as well as READ 1010.

*American degrees must be accredited by an approved agency, and foreign institutions must be approved as "reputable." These approvals will be obtained through consultation with the Director of International Education, the relevant TTU department chairs, and/or appropriate faculty members.

Transfer of Credit

Students may not pick and choose the credit that they wish to transfer. Coursework transferred or accepted for credit toward an undergraduate degree must represent collegiate coursework relevant to the degree, with course content and level of instruction resulting in student competencies at least equivalent to those enrolled in the institution's own undergraduate degree programs. Transfer students whose transcripts show satisfactory completion of the General Education program prescribed by the Tennessee Board of Regents' Policy on Degree Requirements shall be exempted from taking additional courses that normally are a part of the general education requirements of the University, except where teacher certification regulations, major field requirements, or professional accreditation agencies require the inclusion of such courses in the program of studies.

Transfer Credit - Advanced Placement. Advanced placement credit awarded by an institution that has requirements different from those at TTU will be accepted if the student has completed the next successive course in the sequence with at least a grade of "C."

Articulation Agreements With Community Colleges. Tennessee Tech has entered into articulation agreements with the following community colleges: Chattanooga State, Cleveland State, Columbia State, Motlow State, Northeast State, Pellissippi State, Roane State, Volunteer State and Walters State. These transfer programs lead to admission with junior standing at Tennessee Tech after receiving the associate degree by the specified community college. For further information, contact the Director of Academic Services.

Advanced Standing. Students who have attended another collegiate institution may not enter as beginning freshmen. Transcripts of all work attempted at other institutions must be sent by those institutions prior to admission and will be evaluated to determine the student's standing at Tennessee Technological University. Failure to submit any transcript of previous work will be considered as falsification of the record. The acceptance of transfer credit by the University confers advanced standing upon the transfer student.

The student transferring from another institution or requesting advanced standing for educational experiences in the Armed Forces must meet the requirements of this institution for graduation regardless of the number of credits submitted for advanced standing. In instances where there is insufficient information available to evaluate course content and level of instruction for work completed at another institution prior to enrollment, the applicant will be given a tentative evaluation and the work from such institutions will not be entered on the records until the student's transfer credits have been validated.

Advanced standing will not be granted for credit from an institution which is not a recognized college or university. An alternate plan for transfer students in this category permits the establishment of 14 hours of credit by special examination as provided below. See also, Advanced Placement with Credit.

Community College Credits. A student transferring credit from a two-year institution must complete a minimum of 50 semester hours at a senior institution. Residency and other degree requirements of Tennessee Tech must be met.

Credit in Religious Studies. Tennessee Tech reserve the right to limit transfer credit in religious studies to a maximum of 12 semester hours.

DANTES Examinations - Defense Activity for Non-Traditional Education Support. Students may earn college credit for DANTES examinations administered by the Educational Testing Service and evaluated using ACE Guidelines. Credit through DANTES examinations may not be earned for courses in which previously or currently enrolled, including courses failed in residence, for courses in which credit already has been earned in coursework at a higher level, or for both the DANTES examination and its equivalent course. Students wishing specific information on transferability regarding certain DANTES exams must check with the academic unit pertaining to the subject of the exam. DANTES examination scores must be sent to the Office of Admissions on an official transcript form sent directly from the Educational Testing Service (ETS). See the Transfer Coordinator for further information on DANTES tests.

Educational Experiences in the Armed Forces. In evaluating armed services credit, Tennessee Technological University follows the recommendations of the Guide to the Evaluation of Educational Experience in the Armed Services, published by the American Council on Education, if there is equivalent course content at Tennessee Tech. Servicemembers should be prepared upon entrance to present to the University their discharge or service records (Form DD-214), or a transcript of credits earned while in the armed services, for evaluation. Students who have had 4 or more months of active service in the U.S. armed forces may be given credit not to exceed the 8 hours for the military science course. A student requesting credit for prior ROTC training or active Military Service must obtain certificate from the Department of Military Science. When appropriate, the allowable credit may be given in freshman and sophomore physical education. Tennessee Technological University is a member of Servicemembers Opportunity Colleges and participates in the Concurrent Admissions Program (ConAP).

International Transfer Credit.

Any undergraduate student (international, domestic, or permanent resident) with transfer course work from an institution abroad, must follow the following steps to receive transfer work: The student's college or university must be reviewed by the Office of International Education to substantiate that the university is listed via the World Higher Education Database (WHED) at https://www.whed.net/.

In the event the institution of higher education is not listed in WHED, the students will be required to apply for a professional evaluation to receive credit. The student will be required to have coursework evaluated by a member of National Association of Credential Evaluation Services (NACES). The department chair of the course's discipline will review to determine if the course is equivalent. Tennessee Tech will not award credit from any unlisted WHED institution without the evaluation from a NACES member. To appeal credit for a specific course offered by TTU, the course description must be supplied in English to the Office of Admissions or International Education.

Tennessee Tech students who participate in Tennessee Tech's Study Abroad program are exempt from the NACES (National Association of Credential Evaluation Services) evaluation. A list of accredited providers can be found here.

Tennessee Tech will accept and award credit for the AS and A-Level certificates. A student may earn credit for satisfactory scores which are equivalent to a US grade of C or better on examinations offered by Cambridge, Edexcel, IGCSE, and its equivalent in many other nations: Abitur, CXC, WASC, NECO, Matura, Diplome de Baccalaureate, VG, MVG, SPM, STPM, V1, V2, V3, Baccalaureate, Matriculation Exam, and AICE diplomas.

Credit will be awarded for courses taken at universities which have a Memorandum of Understanding with Tennessee Tech, provided the course is listed in the official articulation table. This official articulation table is developed with all course work evaluated by the university faculty and is part of the articulation agreement between the two institutions.

Credit Established by Professional Certificate or Non-Credit Courses. Academic credit may be awarded on occasion for professional certification or non-credit courses. Requests for the award of such credit must be submitted to the departmental chairperson of the department in which credit is being sought. As the executor of departmental policy, he or she will evaluate the requests and submit a recommendation to accept or reject them to the college dean and Office of Records for final approval.

Establishment of Credit by Special Examination. A student who has had sufficient training or experience in a subject to merit the establishment of credit by comprehensive examination but who has not enrolled in the same, comparable, or higher level course at the college level may request the privilege of taking a special examination prepared by the department involved. The request for special examination is secured from the Office of Records and Registration, and the required signatures of approval are obtained, after which the student pays the special examination fee of $20.00 per semester hour to the Business Office. The results of such an examination will be recorded on the student's permanent record. Not more than 14 semester hours may be established by special examination. To establish credit in this manner, a student must be enrolled in the University. Only grades of A, B, C, D and F will be assigned.

Correspondence, Extension Work and Study at Other Institutions. A student who wishes to enroll for correspondence courses, extension work, or residence study at another institution with the intention of transferring this credit to Tennessee Technological University should have prior written approval from the Dean of the school or college in which the student proposes to graduate. The appropriate request form is obtained from the Office of Records and Registration. Work taken without such approval may be presented for evaluation but will be subject to approval or disapproval. Official transcripts should be furnished immediately upon the completion of such work. Correspondence credit in Freshman English and courses which include laboratory work will not be accepted.

A student in residence at Tennessee Technological University who wishes to take correspondence work from another institution while enrolled at the University will be permitted to do so only if he or she is unable to arrange a schedule for the course on campus. The student needs to file with the Office of Records and Registration a Request for In-Residence Study at Another Institution approved by the advisor and the chairperson of the department in which the work is offered on campus before enrolling for the work. Such courses taken off campus are counted as part of the student's load and are subject to the regulations concerning load.

Not more than 60 semester hours of earned towards a baccalaureate degree by Prior Learning Assessment (PLA), including, but not limited to, Advanced Placement (AP), CLEP, International Baccalaureate (IB), special examination, correspondence, portfolio credit or any combination of these. Credit granted in the formal AP program may be more extensive. Not more than 4 semester hours of correspondence and extension credit in professional education courses may be counted toward graduation or teacher certification.

Transfer Track Module

Students who wish to fulfill core curriculum requirements for institutions in both the Tennessee Board of Regents (TBR) System and the University of Tennessee (UT) System may do so by completing the TBR-UT University Track Module. The Module consists of a sixty (60) semester hour block of courses in eight categories of subjects. The University Track Module incorporates the minimum degree requirements of all TBR and UT institutions and requires the completion of courses within the following subject categories:

Category 1:	Two English Composition Courses (normally 6 credit hours)
Category 2:	Two Mathematics Courses (normally 6 credit hours)
Category 3:	Two Science Courses (normally 6-8 credit hours)
Category 4:	Five History and Humanities Courses (normally 15 credit hours)*
	*Six credit hours of history are required. The type of history required varies among public universities in Tennessee. Check university catalogs to determine the proper history courses to take. Tennessee Technological University requires American History for all majors except engineering majors.
Category 5:	Two Social/Behavioral Science Courses (normally 6 credit hours)
	Examples are Anthropology, Criminal Justice, Economics, Political Science, Psychology and Sociology.
Category 6:	Two Multicultural or Interdisciplinary Courses or Two Foreign Language Courses (normally 6 credit hours)
Category 7:	Two Physical Education Courses (normally 2 credit hours)
Category 8:	Pre-major/Major Elective Courses (normally 12-15 credit hours)

The choice of courses depends upon the intended major at the university to which transfer is planned. Students planning to transfer to a Tennessee public university are expected to work with their academic advisors to ensure that all courses taken within the categories are appropriate to their intended majors. Courses to be transferred under the stipulations of the University Track Module must have been completed with the grade of “C” or better.

Archived Catalog PDF Versions

2025 - : 2025-2026 Undergraduate Catalog

2021 - 2025: 2024-2025 Undergraduate Catalog 2023 - 2024 Undergraduate Catalog 2022-2023 Undergraduate Catalog 2021-2022 Undergraduate Catalog

2017 - 2021: 2020-2021 Undergraduate Catalog 2019-2020 Undergraduate Catalog 2018-2019 Undergraduate Catalog 2017-2018 Undergraduate Catalog

2013 - 2017: 2016-2017 Undergraduate Catalog 2015-2016 Undergraduate Catalog 2014-2015 Undergraduate Catalog 2013-2014 Undergraduate Catalog

2009 - 2013: 2012-2013 Undergraduate Catalog 2011-2012 Undergraduate Catalog 2010-2011 Undergraduate Catalog 2009-2010 Undergraduate Catalog

2005 - 2009: 2008-2009 Undergraduate Catalog 2007-2008 Undergraduate Catalog 2006-2007 Undergraduate Catalog 2005-2006 Undergraduate Catalog

2000 - 2005: 2004-2005 Undergraduate Catalog 2002-2004 Undergraduate Catalog 2000-2002 Undergraduate Catalog

Earlier editions are available on the Volpe Library’s website at https://tntech.access.preservica.com/uncategorized/SO_bf14dc50-666e-4a11-aa34-a81047d5fec4/

Accounting Department

Professor Rand, Chairperson; Professors Fesler, Seay; Associate Professors Davis, Howard, Wilbanks; Assistant Professors Bundy, Garner; Instructor Waggoner

The objective of the accounting program is to provide the educational foundation for careers in accounting. The program includes both general and special education. Courses in the arts, sciences, and business areas are required. A wide variety of accounting courses provide flexibility for different accounting specialties. The curriculum is designed to help students build a strong foundation in the discipline of Accounting, preparing them for a wide variety of career opportunities in both business and professional accounting. The accounting major helps students to meet the requirements of the state's 150-hour law for CPA candidacy. Students also have the option to seek a minor in Accounting.

Programs

ACCT-BSBA - Accounting, B.S.B.A.

Program Overview

Program Long Title
Accounting, B.S.B.A.

College/School
Business

Department(s)
Accounting

Requirements

Simple Requirements

Accounting, B.S.B.A. (120 hours)

Type
Completion Requirement

Accounting, B.S.B.A. (120 hours)

Complete ALL of the following Courses:

- DS2810 - DS 2810: Computer Applications in Organizations
- UBUS1020 - Success Skills-Bus Studies
- ACCT2110 - Principles of Accounting I
- ACCT2120 - Principles of Accounting II
- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- ECON3610 - Business Statistics I
- LAW2810 - Business Legal Env & Ethics
- BMGT3510 - Mgmt/Organizational Behavior
- MKT3400 - Principles of Marketing
- ACCT3150 - Accounting Analytics
- ACCT3170 - Financial Acct/Reporting I
- ACCT3180 - Financial Acct/Reporting II
- ACCT3190 - Financial Acct/Reporting III
- ACCT3210 - Cost Accounting
- ACCT3330 - Federal Taxation I
- ACCT3620 - Auditing I
- FIN3210 - Principles/Managerial Fin
- BMGT3720 - Business Communications I
- DS3520 - DS 3520: Operations and Supply Chain Management
- DS3841 - Mgmt Information Systems
- DS3620 - Bus Anyltcs:Data Drv Dec Makng
- BMGT4930 - Business Strategy
- MATH1710 - Pre-Calculus Algebra
- MATH1530 - Introductory Statistics

Additional Requirements:

Accounting Elective (3 cr.): Choose from: ACCT4230, ACCT 4250, ACCT4300, ACCT4530, ACCT4600, ACCT4700, ACCT4800, and ACCT4900.

Business Elective (3 cr.)

Electives (12 cr.)

Communication Electives (9 cr.)

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication
- Communication (GEDC) - Writing

Quantitative Reasoning and Analysis (3 cr.)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Historical Foundations (6 cr.)

Earn at least 6 credits from the following:

- Historical Foundations (FFHF)

Humanities/Cultural Expression (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Scientific Reasoning (4 cr.)

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

Social and Behavioral Science Electives (6 cr.)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

This requirement is complete with ECON 2010 and 2020.

Financial or Digital Literacy (3 cr.)

Complete ANY of the following Course Sets:

- Financial Literacy or Digital Literacy (FFDL)

This requirement is complete with DS 2810

Flight Foundations Flexible Electives (4 cr.)

Credits may be taken from these areas:

Humanities/Cultural Expression or

Scientific Reasoning or

Financial or Digital Literacy

Degree Map

Degree Map Name
Degree Map - Accounting, B.S.B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- DS2810 - DS 2810: Computer Applications in Organizations

Actual Credits 3

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Flight Foundations Flexible Elective (1 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning or Financial Literacy, or Digital Literacy. (Generic)

Actual Credits 1

Requirement Select
- UBUS1020 - Success Skills-Bus Studies

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Flight Foundations Flexible elective (3 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial Literacy or Digital Literacy. (Generic)

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- ACCT2110 - Principles of Accounting I

Actual Credits 3

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- ECON3610 - Business Statistics I

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ACCT2120 - Principles of Accounting II

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- ACCT3150 - Accounting Analytics

Actual Credits 3

Requirement Select
- ACCT3170 - Financial Acct/Reporting I

Actual Credits 3

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- BMGT3720 - Business Communications I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- ACCT3180 - Financial Acct/Reporting II

Actual Credits 3

Requirement Select
- ACCT3210 - Cost Accounting

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- DS3520 - DS 3520: Operations and Supply Chain Management

Actual Credits 3

Requirement Select
- DS3841 - Mgmt Information Systems

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- ACCT3190 - Financial Acct/Reporting III

Actual Credits 3

Requirement Select
- DS3620 - Bus Anyltcs:Data Drv Dec Makng

Actual Credits 3

Requirement Select
- Elective (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- ACCT3330 - Federal Taxation I

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- ACCT/Accounting Electives

Actual Credits 3

Requirement Select
- BMGT4930 - Business Strategy

Actual Credits 3

Requirement Select
- Business Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- ACCT3620 - Auditing I

Actual Credits 3

Requirement Select
- Accounting electives: ACCT 4230, ACCT 4250, ACCT 4300, ACCT 4530, ACCT 4600, ACCT 4700, ACCT 4800, ACCT 4900
  (Generic)

Actual Credits -

Requirement Select
- Accounting majors must earn a grade of C or better in: ACCT 2110, ACCT 2120, ACCT 3150, ACCT 3170, ACCT 3180, ACCT 3190, ACCT 3210, ACCT 3330, and ACCT 3620
  (Generic)

Actual Credits -

Requirement Select
- Electives – Business students must take a minimum of one (1) three-hour upper division business elective. Additional electives are required to complete the credits required for the degree. The additional elective credits may be completed with courses from any discipline at any level. Electives should be chosen in consultation with an academic advisor
  (Generic)

Actual Credits -

ACCT-MIN - Accounting Minor

Program Overview

Program Long Title
Accounting Minor

College/School
Business

Department(s)
Accounting

Requirements

Simple Requirements

Accounting Minor

Type
Completion Requirement

Core Courses (15 Hours)

Students will be allowed to complete a minor in Accounting by completing 15 hours of courses as designated here:

Complete ALL of the following Courses:

- ACCT2110 - Principles of Accounting I
- ACCT2120 - Principles of Accounting II
- ACCT3170 - Financial Acct/Reporting I
- ACCT3180 - Financial Acct/Reporting II
- ACCT3210 - Cost Accounting

Courses

Course Information

Course Title
Personal Tax

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
1040

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Preparation of federal income tax returns for individuals, with some emphasis on tax planning. To receive credit for both ACCT 1040 and ACCT 3330, ACCT 1040 must be taken prior to enrolling in ACCT 3330 or its equivalent.

College/School
Business

Course Information

Course Title
Principles of Accounting I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
2110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Fundamental principles and procedures of financial accounting, including transactions analysis, financial statements, internal control, and an introduction to data analysis using data visualization to understand financial information.

College/School
Business

Course Information

Course Title
Principles of Accounting II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
2120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ACCT 2110. Fundamental principles and procedures of financial accounting, including capital structure and the statement of cash flows, and managerial accounting, including cost structure, budgeting, strategic decision-making, and time-value of money.

College/School
Business

Requisites and Restrictions

Prerequisite:
Prerequisite: ACCT 2110.

Note:
(ACCT 1020, TTP Course)

Course Information

Course Title
Accounting Analytics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
3150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACCT 2110 and ACCT 2120. Specific terminology, data analytics, visualization, and technology applied to the practice of Accounting. Accounting majors must earn a C or better to graduate.

College/School
Business

Requisites and Restrictions

Prerequisite:
ACCT 2110 and ACCT 2120.

Course Information

Course Title
Financial Acct/Reporting I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
3170

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACCT 2110 and ACCT 2120 with grades of C or better. In-depth treatment of traditional financial accounting topics including standards setting, the accounting processing cycle, financial statement form and content, revenue recognition, time value of money, and accounting and reporting of current assets. Emphasis is placed on the development of technical accounting skills including basic theory, valuation, and measurement. Accounting majors must earn a grade of C or better to graduate.

College/School
Business

Requisites and Restrictions

Prerequisite:
ACCT 2110 and ACCT 2120 with grades of C or better.

Course Information

Course Title
Financial Acct/Reporting II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
3180

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACCT 3170 and ACCT 3150 with grades of C or better. Continuation of ACCT3170. In-depth treatment of accounting and reporting for current and non-current assets and current and non-current liabilities. Emphasis is placed on the development of technical accounting skills including basic theory, valuation, and measurement along. Some assignments will incorporate Excel and other technology. Accounting majors must earn a grade of C or better to graduate.

College/School
Business

Requisites and Restrictions

Prerequisite:
ACCT 3150 and ACCT 3170 with grades of C or better.

Course Information

Course Title
Financial Acct/Reporting III

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
3190

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ACCT 3180 with a grade of C or better. Continuation of ACCT 3180. In-depth treatment of accounting and reporting for leases, income taxes, pensions, shareholder equity, EPS, and Accounting changes and error corrections, and the statement of cash flows. Emphasis is placed on development of technical accounting skills including basic theory, valuation, and measurement. Accounting majors must earn a C or better to graduate.

College/School
Business

Requisites and Restrictions

Prerequisite:
Prerequisite: ACCT 3180 with a grade of C or better.

Course Information

Course Title
Cost Accounting

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
3210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACCT 2120 with grade of C or better. Procedures for providing accounts and reports of cost information to management for planning, controlling, pricing and external reporting. Cost, volume, and profit analysis and budgeting techniques with the use of technology. Accounting majors must earn a grade of C or better to graduate.

College/School
Business

Requisites and Restrictions

Prerequisite:
ACCT 2120 with grade of C or better.

Course Information

Course Title
Federal Taxation I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
3330

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACCT 3150 and ACCT 3170 with a grade of C or better. A survey of the basic concepts of taxation and the impact of federal taxation on individuals, business income, and property transactions. An introduction to basic tax research methods using available tax research databases. Accounting majors must earn a grade of C or better to graduate.

College/School
Business

Course Information

Course Title
Auditing I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
3620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACCT 3150 and ACCT 3170 with a grade of C or better. Introduction to the theory and practice of financial statement audits. Includes use of online professional standards and simulated electronic work papers. Accounting majors must earn a grade of C or better to graduate.

College/School
Business

Course Information

Course Title
Survey of Accounting

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
3720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Basic accounting principles, financial statements, analysis, cost behavior, cost accounting systems, internal controls, and costing for management decision-making. Open to non-business majors only. Credit will not be granted for both ACCT 2110 or ACCT 2120 and ACCT 3720.

College/School
Business

Course Information

Course Title
Advanced Managerial Accounting

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACCT 3210 with a C or better. Course focuses on the role of financial managers and managerial accountants, and the practical implementation of management financial reporting principles and reporting of financial results. Course also focuses on business ethics, data analytics methods, and excel and communication skills.

College/School
Business

Requisites and Restrictions

Prerequisite:
ACCT 3210 with a grade of C or better.

Governmental, NFP, & Healthcare Accounting

Course Information

Course Title
Govt, NFP, & Healthcare Acct

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ACCT 3170 with minimum grade of C. Accounting, reporting and budgeting for governmental entities and other not-for-profit organizations, including coverage of healthcare and voluntary welfare organizations.

College/School
Business

Syllabus
ACCT 4250 Syllabus.docx

Requisites and Restrictions

Prerequisite:
ACCT 3170 with a minimum grade of C.

Course Information

Course Title
Financial Statement Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: A grade of C or better in ACCT 3180 or FIN 3210, or permission of instructor. In depth study of the methodologies used to analyze financial statements. Emphasis is placed on the use of technology to understand and apply ratio analysis.

College/School
Business

Requisites and Restrictions

Prerequisite:
A grade of C or better in ACCT 3170 or FIN 3210, or permission of instructor.

Course Information

Course Title
Tax Management for Entities

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4340

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACCT 3330. Use of tax law and accounting data by management in planning, controlling, and decision making for business entities.

College/School
Business

Requisites and Restrictions

Prerequisite:
ACCT 3330.

Acquisitions/Partnerships/Other Topics

Course Information

Course Title
Acquis/Prtnrships/Other Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACCT 3180 with a grade of C or better. Theory and problems relating to consolidation and liquidations, international accounting, and accounting for partnership equity. Enrollment in junior or senior level accounting courses requires junior standing. All business major must have completed the Basic Business Program.

College/School
Business

Requisites and Restrictions

Prerequisite:
ACCT 3180 with a grade of C or better.

Government & Not-for-Profit Accounting

Course Information

Course Title
Gov & Not-For-Profit Acct

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: ACCT 2110 and ACCT 2120 with minimum grades of C. Accounting, reporting and budgeting for governmental entities and other not-for-profit organizations, including coverage of healthcare and voluntary welfare organizations.

College/School
Business

Requisites and Restrictions

Prerequisite:
ACCT 2110 and ACCT 2120 with minimum grades of C.

Course Information

Course Title
Forensic Acct & Fraud Auditing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing in the College of Business. Exposure to applicable authoritative literature on the prevalence and forms of financial fraud, tools and methods of fraud auditing, and forensic tools to detect financial fraud. Includes application of Excel and other technology-based fraud detection tools. Students will not receive credit for both the 4000-level version and the 5000-level version of the class.

College/School
Business

Requisites and Restrictions

Prerequisite:
Junior standing in the College of Business.

Course Information

Course Title
International Exp in ACCT

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4700

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: Open to Accounting majors and requires consent of instructor. A short-term, faculty-led study abroad program highlighting selected historical and modern contributions to accounting and business in the UK. Course will meet weekly during the semester in addition to spending approximately 8 days in the UK. A special course fee will apply. Students will not receive credit for both the 4000-level and 5000-level version of the class.

College/School
Business

Requisites and Restrictions

Prerequisite:
Open to Accounting majors and requires consent of instructor.

Course Information

Course Title
Auditing in EDP Environment

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4750

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: ACCT 3620. Audit concepts and practices applied to accounting information systems in a microcomputer environment.

College/School
Business

Requisites and Restrictions

Prerequisite:
ACCT 3620.

Course Information

Course Title
Internship in Accounting

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4800

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Consent of Department Internship Coordinator or Department Chair. A directed current professional experience in accounting. To receive credit, several criteria must be met, including prior approval of Department Internship Coordinator, a minimum of 320 hours of professional-level work, submission of a post-internship journal, and a job performance evaluation by the work supervisor.

College/School
Business

Requisites and Restrictions

Prerequisite:
Consent of Department Internship Coordinator or Department Chair.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4900

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of Instructor. An advanced course covering current topics in accounting, auditing, taxation or related topics. Course may be taken more than once as topics change.

College/School
Business

Requisites and Restrictions

Prerequisite:
Consent of Instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4901

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of Instructor. An advanced course covering current topics in accounting, auditing, taxation or related topics. Course may be taken more than once as topics change.

College/School
Business

Requisites and Restrictions

Prerequisite:
Consent of Instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ACCT

Course Number
4902

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of Instructor. An advanced course covering current topics in accounting, auditing, taxation or related topics. Course may be taken more than once as topics change.

College/School
Business

Requisites and Restrictions

Prerequisite:
Consent of Instructor.

Course Information

Course Title
Business Legal Env & Ethics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LAW

Course Number
2810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The legal aspects of the business environment including antitrust, administrative, consumer, and employment law; business organizations; and principles of contracts.

College/School
Business

Course Information

Course Title
Business Law

Academic Level (Course Level)
Undergraduate

Course Subject Code
LAW

Course Number
4720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Law related to business practices and procedures, including personal property, bailments, sales, commercial paper, and legal aspects of organizing, operating and terminating a business.

College/School
Business

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LAW

Course Number
4900

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Senior standing or consent of instructor. Selected topics involving the legal environment. A student may take LAW 4900 twice provided the topic is different each time.

College/School
Business

Requisites and Restrictions

Prerequisite:
Senior Standing or consent of instructor.

Agriculture Department

(Vacant) Director; Professors Airhart, Duncan; Associate Professors Fennewald, Park, Leckie; Assistant Professors Ayres, Baier, Bowhay, Nattrass; Lecturer Campbell

The curricula of the School of Agriculture are designed to prepare students for careers in the increasingly complex and scientific field of agriculture. Following completion of the B.S. degree, students may also choose to enter graduate study.

Programs

AGRI-AEC - Agriculture, Agricultural Education & Communication Concentration, B.S.AG.

Program Overview

Program Long Title
Agriculture, Agricultural Education & Communication Concentration, B.S.AG.

College/School
Agriculture and Human Ecology

Department(s)
Agriculture

Requirements

Simple Requirements

Agriculture, Agricultural Education and Communication Concentration, B.S. AG. (120 hours)

Type
Completion Requirement

Flight Foundation Requirements

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation - Humanities and Cultural Expression (6 cr.)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundations: Humanities and Cultural Expression (3 cr.) - Literature

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation - Quantitative Reasoning and Analysis (3 cr.)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation - Historical Foundations (6 cr.)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation - Social/Behavioral Science Electives (6 cr.)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation - Scientific Reasoning (4 cr.)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Agricultural Education & Communication Core Requirements

Complete ALL of the following Courses:
- AGR1020 - Connections to Agriculture
- AGRN1100 - Plant Science
  AND AGRN1110 - Plant Science Laboratory
- ANS1200 - Introductory Animal Science
  AND ANS1210 - Intro Animal Science Lab
- AGED2120 - Intro to Ag & Extension Ed
- AGBE2100 - Econ of Agriculture
- AGR2022 - Professionalism in Agriculture
- AGRN2000 - Soil and the Environment
- AGR3000 - Leadership and Service
- AGHT3410 - Plant Propagation
  OR JOUR3350 - News Production and Design
- ANS2110 - Livestock Evaluation
  OR JOUR2200 - Mass Comm/Changing Society
- AGHT4420 - Greenhouse Production and Mgmt
  OR JOUR2220 - News Reporting & Copy Editing
- AGED4950 - Agricultural Ed Topics
  OR PC3500 - Rhetoric and the Internet
- AGED4300 - Program Planning & Development in Cooperative Extension
- AGED4110 - Meth/Tchg Agriscience
  OR COMM3620 - Intercultural Communication
- AGR4500 - Senior Seminar
- AGED4873 - Professional Seminar I
- AGED4925 - Professional Seminar II
  OR AGCM4920 - Capstone Project In AGCM
- AGED4900 - Residency II
  OR JOUR3480 - Social Media Management
- AGCM4850 - Internship in Ag Comm

Additional Requirements:

(AGET 2110 and AGET 2115) or (AGET 3110 and AGET 3115)

(AGET 4220 and AGET 4225) or (JOUR 3480 and Upper Division Ag elective)

Upper Division Ag Electives (3-9 credits)

Additional Requirements for Agricultural Education and Communication

Complete ALL of the following Courses:
- BIOL1123 - General Biology II
  OR BIOL2310 - General Botany
- MATH1530 - Introductory Statistics
  OR MATH1710 - Pre-Calculus Algebra
- ECON2010 - Principles of Microeconomics

OR ECON2020 - Principles of Macroeconomics
OR PSY1030 - Introduction to Psychology
OR AGBE2010 - World Food and Society
OR SOC1010 - Intro to Sociology
- PSY2210 - Educational Psychology
- FOED3010 - Integrating Instructional Technology into the Classroom
- SPED3000 - Supporting all Learners in Secondary Education
  OR COMM2090 - Interpersonal Communication
- JOUR3470 - Public Rel. Writing/Production
  OR JOUR3500 - Visual Storytelling

Additional electives may be required to complete 120 earned hours (0-2 credits) depending on course selection.

Flight Foundation - Financial and Digital Literacy (3 cr.)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Flexible elective (1 cr.) - approved course from Financial and Digital Literacy or Scientific Reasoning.

Degree Map

Degree Map Name
Agriculture, Agricultural Education and Communication Concentration, B.S. AG.
Total Degree Map Credits
121 - 124
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative

Minimum total hours equal 120. Course selection varies depending on path followed - Communication or Agricultural Education.

Year	Semester	Actual Credits
Freshman Year	Fall Semester	12

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- AGR1020 - Connections to Agriculture

Actual Credits 1

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- AGRN1100 - Plant Science

Actual Credits 3

Requirement Select
- AGRN1110 - Plant Science Laboratory

Actual Credits 1

Requirement Select
- Flight Foundation Flexible elective (1 cr.) - from Financial or Digital Literacy or Scientific Reasoning (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Spring Semester	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- ANS1200 - Introductory Animal Science
- **AND** ANS1210 - Intro Animal Science Lab

Actual Credits 4

Requirement Select
- BIOL1123 - General Biology II
  OR
- BIOL2310 - General Botany

Actual Credits 4

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Fall Semester	16

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- AGED2120 - Intro to Ag & Extension Ed

Actual Credits 3

Requirement Select
- AGBE2100 - Econ of Agriculture

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics
  OR
- ECON2020 - Principles of Macroeconomics
  OR
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- AGR2022 - Professionalism in Agriculture

Actual Credits 1

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring Semester	15

Requirement Select
- AGRN2000 - Soil and the Environment

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- AGET2110 - Agricultural Engr Technology
- **AND** AGET2115 - Agricultural Engr Tech Lab
  OR
- AGET3110 - Natural Resource System
- **AND** AGET3115 - Natural Resource Systems Lab

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Fall Semester	18

Requirement Select
- AGR3000 - Leadership and Service

Actual Credits 3

Requirement Select
- AGHT3410 - Plant Propagation
  OR
- JOUR3350 - News Production and Design

Actual Credits 3

Requirement Select
- JOUR2200 - Mass Comm/Changing Society
  OR
- ANS2110 - Livestock Evaluation

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Upper Division (3000-4000 level) Ag. Elective (3-4 cr.) (Generic)

Actual Credits 3

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring Semester	12 - 15

Requirement Select
- AGHT4420 - Greenhouse Production and Mgmt
  OR
- JOUR2220 - News Reporting & Copy Editing

Actual Credits 3

Requirement Select
- AGED4200 - Meth/Techniq-Tch Ag & Ext Ed
  OR
- BMGT3720 - Business Communications I

Actual Credits 3

Requirement Select
- AGED4300 - Program Planning & Development in Cooperative Extension

Actual Credits 3

Requirement Select

- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 0 - 3

Requirement Select

- PC3500 - Rhetoric and the Internet
  OR
- AGED4950 - Agricultural Ed Topics

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Fall Semester	16

Requirement Select

- SPED3000 - Supporting all Learners in Secondary Education
  OR
- COMM2090 - Interpersonal Communication

Actual Credits 3

Requirement Select

- AGED4110 - Meth/Tchg Agriscience
  OR
- COMM3620 - Intercultural Communication

Actual Credits 3

Requirement Select

- AGR4500 - Senior Seminar

Actual Credits 1

Requirement Select

- AGED4873 - Professional Seminar I

Actual Credits 3 - 0

Requirement Select

- Upper Division Elective (Ag Comm ONLY) 3 cr. (Generic)

Actual Credits 3

Requirement Select

- AGET4220 - Agri Machinery/Tractors
- **AND** AGET4225 - Agri Machinery/Tractors Lab
  OR
- JOUR3420 - Podcasting
- **AND** AGRELEC - Agriculture Elective Credit

Actual Credits 3 - 6

Year	Semester	Actual Credits
Senior Year	Spring Semester	15

Requirement Select

- AGED4925 - Professional Seminar II
  OR
- AGCM4920 - Capstone Project In AGCM

Actual Credits 2

Requirement Select

- JOUR3480 - Social Media Management
  OR
- AGED4900 - Residency II

Actual Credits 3

Requirement Select

- AGCM4850 - Internship in Ag Comm

Actual Credits 4

Requirement Select

- Upper Division (3000-4000 level) Ag. Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select

- JOUR3470 - Public Rel. Writing/Production
  OR
- JOUR3500 - Visual Storytelling

Actual Credits 3

AGRI-AGBE - Agriculture, Agribusiness Management Concentration, B.S.AG.

Program Overview

Program Long Title
Agriculture, Agribusiness Management Concentration, B.S.AG.

College/School
Agriculture and Human Ecology

Department(s)
Agriculture

Requirements

Simple Requirements

Agriculture, Agribusiness Management Concentration (120 hours)

Type
Completion Requirement

General Education Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

General Education Core - Mathematics (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

General Education Core - American History (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

General Education Core - Humanities and/or Fine Arts - Literature Requirement (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

General Education Core - Humanities and/or Fine Arts (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Complete six hours from the approved Humanities/Fine arts list.

General Education Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Complete Six hours from the approved Social/Behavioral Sciences list.

General Education Core - Natural Science (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Complete eight hours from the approved Natural Sciences list.

Agriculture, Agribusiness Management Concentration

Type
Completion Requirement

Agribusiness Concentration Core

Complete ALL of the following Courses:
- ANS1200 - Introductory Animal Science
- AGRN1100 - Plant Science
- AGRN2000 - Soil and the Environment
  OR AGRN2400 - Introduction to Soils
- AGBE2100 - Econ of Agriculture
- AGBE3100 - Agricultural Marketing
- AGBE3220 - AGBE 3220: Data Acquisition and Computer Analysis in Agribusiness
- AGBE3400 - Agricultural Finance
- AGBE3430 - Intro to Agribusiness Mgmt
- AGBE3950 - Agribusiness Internship
- AGBE4030 - Agribusiness Management
- AGBE4110 - Agricultural Prices, Futures, and Options
- AGBE4120 - Natural Resource Economics
- AGBE4130 - Agricultural & Food Policy
- AGBE4200 - Agribusiness Statistics
  OR AGBE4300 - Entrepreneurship/AG Business
- AGET2110 - Agricultural Engr Technology
  OR AGET3110 - Natural Resource System
- AGET2115 - Agricultural Engr Tech Lab
  OR AGET3115 - Natural Resource Systems Lab
- AGR1020 - Connections to Agriculture
- AGR2022 - Professionalism in Agriculture
- AGR3000 - Leadership and Service
  OR AGR3200 - Study Abroad Exploration
- AGR4500 - Senior Seminar

Complete one group in:

AGET2110 and AGET2115 or

AGET3110 and AGET3315

Upper Division Agriculture Electives (9 hours)

Complete 9 credits of 3000/4000 level electives from the following disciplines: AGBE, AGED, AGET, AGHE, AGHT, AGRN, ANS, or ANPS.

Agribusiness Management Concentration Core Requirement

Not more than one course each from the above listed disciplines.

Additional Program Requirements

Complete ALL of the following Courses:

- MATH1710 - Pre-Calculus Algebra
  OR MATH1530 - Introductory Statistics
  OR MATH1830 - Applied Calculus
  OR MATH1910 - Calculus I
- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- ACCT2110 - Principles of Accounting I
- ACCT2120 - Principles of Accounting II
- LAW2810 - Business Legal Env & Ethics
- MKT3400 - Principles of Marketing

Upper Division Business or Economics Elective (3 hours)

Complete 3 credits taken from the following disciplines: ACCT, BMGT, DS, ECON, FIN, MKT, or LAW.

Additional Program Requirement

General Electives (4 hours)

Take four (4) general electives to complete the required 120 earned hours.

Additional Program Requirement.

Additional Comments:
Note: A student would be able to qualify for consideration into the MBA program at Tennessee Tech by completing the following courses as Business/ Economics electives: MKT 3400, BMGT 3510, FIN 3210, DS 3620, LAW 2810 and ECON 3610.)

Degree Map

Degree Map Name
Degree Plan - Agriculture, Agribusiness Management Concentration, B.S.AG.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2324 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- AGR1020 - Connections to Agriculture

Actual Credits 1

Requirement Select
- AGRN1100 - Plant Science

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1530 - Introductory Statistics
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1910 - Calculus I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ANS1200 - Introductory Animal Science

Actual Credits 3

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- AGBE2100 - Econ of Agriculture

Actual Credits 3

Requirement Select
- AGET2110 - Agricultural Engr Technology
- **AND** AGET2115 - Agricultural Engr Tech Lab
  OR
- AGET3110 - Natural Resource System
- **AND** AGET3115 - Natural Resource Systems Lab

Actual Credits 3

Requirement Select
- ACCT2110 - Principles of Accounting I

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Take AGET2110 and AGET2115 or AGET3110 and AGET3115.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ACCT2120 - Principles of Accounting II

Actual Credits 3

Requirement Select
- AGRN2000 - Soil and the Environment

Actual Credits 3

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- AGBE3100 - Agricultural Marketing

Actual Credits 3

Requirement Select
- AGBE3220 - AGBE 3220: Data Acquisition and Computer Analysis in Agribusiness

Actual Credits 3

Requirement Select
- AGBE3400 - Agricultural Finance

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- AGBE3430 - Intro to Agribusiness Mgmt

Actual Credits 3

Requirement Select
- AGBE3950 - Agribusiness Internship

Actual Credits 3

Requirement Select
- Upper Division Agriculture Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- AGBE4110 - Agricultural Prices, Futures, and Options

Actual Credits 3

Requirement Select
- AGBE4120 - Natural Resource Economics

Actual Credits 3

Requirement Select

- Upper Division Agriculture Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select

- Elective (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select

- Upper Division Business or Economics Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select

- AGBE4030 - Agribusiness Management

Actual Credits 3

Requirement Select

- AGBE4130 - Agricultural & Food Policy

Actual Credits 3

Requirement Select

- AGBE4200 - Agribusiness Statistics
  OR
- AGBE4300 - Entrepreneurship/AG Business

Actual Credits 3

Requirement Select

- AGR2022 - Professionalism in Agriculture

Actual Credits 1

Requirement Select

- AGR3000 - Leadership and Service
  OR
- AGR3200 - Study Abroad Exploration

Actual Credits 3

Requirement Select

- AGR4500 - Senior Seminar

Actual Credits 1

Requirement Select

- A student would be able to qualify for consideration into the MBA program at Tennessee Tech by completing the following courses as Business/Economics electives: MKT 3400 , BMGT 3510 , FIN 3210 , DS 3620 , LAW 2810 and ECON 3610 .)

  1 No more than one course from any Agriculture discipline. (AGBE, AGED, AGET, AGHE, AGHT, AGRN and ANS)

  2 From University approved list.
  (Generic)

Actual Credits -

AGRI-AGET - Agriculture, Agricultural Engineering Technology Concentration, B.S.AG.

Program Overview

Program Long Title
Agriculture, Agricultural Engineering Technology Concentration, B.S.AG.

College/School
Agriculture and Human Ecology

Department(s)
Agriculture

Requirements

Simple Requirements

Agriculture, Agricultural Engineering Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression - Literature (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (3 hours)

Earn at least 3 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Flight Foundation Core - Financial or Digital Literacy (3 cr.)

Earn at least undefined credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Agriculture, Agricultural Engineering Concentration

Type
Completion Requirement

Agricultural Engineering Concentration Core

Complete ALL of the following Courses:
- AGR1020 - Connections to Agriculture
- AGRN1100 - Plant Science
- AGRN1110 - Plant Science Laboratory
- AGET1600 - Pract Apps in Ag Systems
- ANS1200 - Introductory Animal Science
- ANS1210 - Intro Animal Science Lab
- AGET2110 - Agricultural Engr Technology
  AND AGET2115 - Agricultural Engr Tech Lab
- AGBE2100 - Econ of Agriculture
- AGR2022 - Professionalism in Agriculture
- AGRN2400 - Introduction to Soils
  AND AGRN2415 - Soils Lab
- AGET3540 - Fund/GIS & GPS in AG & Nat Rsr
- AGET3620 - Computer Aided Design in Ag
- AGET3110 - Natural Resource System
  AND AGET3115 - Natural Resource Systems Lab
- AGET3320 - Small Power Equipment
  AND AGET3325 - Small Power Equipment Lab
- AGET3520 - Agricultural Spatial Technolog
- AGET4620 - Agricultural Structures
- AGR3000 - Leadership and Service
  OR AGR3200 - Study Abroad Exploration
- AGET4220 - Agri Machinery/Tractors
  AND AGET4225 - Agri Machinery/Tractors Lab
- AGET4720 - Agricultural Processing
- AGET4850 - Engr Tech Design-Agriculture

Additional Requirement:

Upper Division AGET elective (3 cr.): choose from AGT 3510, AGET 3560/3565, AGET4510, AGET 4520, AGET 4540, AGET 4940, AGET 4950, AGET 4960, AGET 4970, AGET 4980, AGR 4920, AGR 3940, AGR 3950, or AGR 3960

Upper Division Agriculture Electives (12 hours)

Agricultural Engineering Concentration Core Requirement
Courses can be chosen from any Agriculture discipline.

Additional Program Requirements

Complete ALL of the following Courses:

- ACCT3720 - Survey of Accounting
- BMGT3510 - Mgmt/Organizational Behavior

Additional Science Electives (8 credits)

Science electives can be taken from the following disciplines: ASTR, BIOL, CHEM, GEOL, or PHYS (any level).

Degree Map

Degree Map Name
Degree Plan - Agriculture, Agricultural Engineering Technology Concentration, B.S.AG.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- AGR1020 - Connections to Agriculture

Actual Credits 1

Requirement Select
- AGRN1100 - Plant Science

Actual Credits 3

Requirement Select
- AGRN1110 - Plant Science Laboratory

Actual Credits 1

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- AGET1600 - Pract Apps in Ag Systems

Actual Credits 3

Requirement Select
- ANS1200 - Introductory Animal Science

Actual Credits 3

Requirement Select
- ANS1210 - Intro Animal Science Lab

Actual Credits 1

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- AGET2110 - Agricultural Engr Technology
- **AND** AGET2115 - Agricultural Engr Tech Lab

Actual Credits 3

Requirement Select
- AGBE2100 - Econ of Agriculture

Actual Credits 3

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- AGR2022 - Professionalism in Agriculture

Actual Credits 1

Requirement Select
- AGRN2400 - Introduction to Soils
- **AND** AGRN2415 - Soils Lab

Actual Credits 4

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- ACCT3720 - Survey of Accounting

Actual Credits 3

Requirement Select
- AGET3540 - Fund/GIS & GPS in AG & Nat Rsr

Actual Credits 3

Requirement Select
- AGET3620 - Computer Aided Design in Ag

Actual Credits 3

Requirement Select
- Upper Division (3000-4000 level) Ag Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- ASTRELEC - Astronomy Elective
  OR
- BIOLELEC - Biology Elective Credit
  OR
- CHEMELEC - Chemistry Elective
  OR
- GEOLELEC - Geology Elective
  OR
- PHYSELEC - Physics Elective

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- AGET3110 - Natural Resource System
- **AND** AGET3115 - Natural Resource Systems Lab

Actual Credits 3

Requirement Select
- AGET3320 - Small Power Equipment

Actual Credits 2

Requirement Select
- AGET3325 - Small Power Equipment Lab

Actual Credits 1

Requirement Select
- Upper Division Agriculture Elective (3 credits) (Generic)

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- ASTRELEC - Astronomy Elective
  OR
- BIOLELEC - Biology Elective Credit
  OR
- CHEMELEC - Chemistry Elective
  OR
- GEOLELEC - Geology Elective
  OR
- PHYSELEC - Physics Elective

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- AGET3520 - Agricultural Spatial Technolog

Actual Credits 3

Requirement Select
- AGET4620 - Agricultural Structures

Actual Credits 3

Requirement Select
- Upper Division Agriculture Elective (3 credits) (Generic)

Actual Credits 3

Requirement Select

- AGR3000 - Leadership and Service

  OR
- AGR3200 - Study Abroad Exploration

Actual Credits 3

Requirement Select

- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select

- AGET4220 - Agri Machinery/Tractors

Actual Credits 2

Requirement Select

- AGET4225 - Agri Machinery/Tractors Lab

Actual Credits 1

Requirement Select

- AGET4720 - Agricultural Processing

Actual Credits 3

Requirement Select

- AGET4850 - Engr Tech Design-Agriculture

Actual Credits 3

Requirement Select

- AGRI/AGET Elective

Actual Credits 3

AGRI-AGMG - Agriculture, Agricultural Science and Management Concentration, B.S.AG.

Program Overview

Program Long Title

Agriculture, Agricultural Science and Management Concentration, B.S.AG.

College/School

Agriculture and Human Ecology

Department(s)

Agriculture

Requirements

Simple Requirements

Agriculture, Agricultural Science and Management Concentration (120 hours)

Type

Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Agricultural Science and Management concentration takes MATH1530, MATH1710 or MATH1830.

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression - Literature (3 hours)

Complete ANY of the following Courses:

- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Founation Core - Humanities and Cultural Expression (3 hours)

Earn at least 3 credits from the following:

- Humanities/Cultural Expression (FFHC)

General Education Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Flight Foundation Core - 3 cr. Financial Literacy or Digital Literac y

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Agriculture, Agricultural Science and Management Concentration

Type
Completion Requirement

Agricultural Science and Management Concentration Core

Complete ALL of the following Courses:

- AGR1020 - Connections to Agriculture
- AGRN1100 - Plant Science
  OR AGRN1110 - Plant Science Laboratory
- ANS1200 - Introductory Animal Science
  AND ANS1210 - Intro Animal Science Lab
- AGBE2100 - Econ of Agriculture
- AGRN2400 - Introduction to Soils
- AGR3000 - Leadership and Service
  OR AGR3200 - Study Abroad Exploration
  OR AGED3010 - Professional Leadership Dev
- AGR3940 - Advanced Internship
  OR AGR3950 - Advanced Internship
  OR AGR3960 - Advanced Internship
- AGET1600 - Pract Apps in Ag Systems
- AGR2022 - Professionalism in Agriculture
- AGR4920 - Senior Problem

Complete one group in:

AGET2110 and AGET2115 or

AGET3110 and AGET3115

Primary AG Concentration - Upper Division (15 hours)

Complete 15 credits of 3000/4000 level electives from the following disciplines: AGBE, AGCM, AGED, AGET, AGRN, ANS, or ANPS.

Agricultural Science and Management Concentration Core Requirement

Agriculture Electives - Upper Division

Complete 12 upper division electives (3000-4000 level) from the following disciplines: AGBE, AGCM, AGED, AGET, AGHT, AGR, AGRN, ANS, or ANPS.

Agricultural Science and Management Concentration Core Requirement

Additional Program Requirements

Complete ALL of the following Courses:

- HEC3011 - Consumer Economics
- ELECTIVE - Elective Credit

Additional Requirements:

Upper Division (3000-4000 level) Electives **(18 credits)**

Degree Map

Degree Map Name
Degree Plan - Agriculture, Agricultural Science and Management Concentration, B.S.AG.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select

- AGR1020 - Connections to Agriculture

Actual Credits 1

Requirement Select

- AGRN1100 - Plant Science

Actual Credits 3

Requirement Select

- AGRN1110 - Plant Science Laboratory

Actual Credits 1

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select

- ANS1200 - Introductory Animal Science

Actual Credits 3

Requirement Select
- ANS1210 - Intro Animal Science Lab

Actual Credits 1

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- AGBE2100 - Econ of Agriculture

Actual Credits 3

Requirement Select
- AGET2110 - Agricultural Engr Technology
- **AND** AGET2115 - Agricultural Engr Tech Lab
  OR
- AGET3110 - Natural Resource System
- **AND** AGET3115 - Natural Resource Systems Lab

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- AGRN2400 - Introduction to Soils

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- AGR3000 - Leadership and Service
  OR
- AGED3010 - Professional Leadership Dev
  OR
- AGR3200 - Study Abroad Exploration

Actual Credits 3

Requirement Select
- AGR3940 - Advanced Internship
  OR
- AGR3950 - Advanced Internship
  OR
- AGR3960 - Advanced Internship

Actual Credits 3

Requirement Select
- Primary Ag Concentration (6 hours upper division) (Generic)

Actual Credits 6

Requirement Select
- HEC3011 - Consumer Economics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- AGET1600 - Pract Apps in Ag Systems

Actual Credits 3

Requirement Select
- AGR2022 - Professionalism in Agriculture

Actual Credits 1

Requirement Select
- Upper Division Primary Ag Concentration (6 cr.) (Generic)

Actual Credits 6

Requirement Select
- Upper Division Electives (6 cr.) (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Upper Division Ag Electives (6 cr.) (Generic)

Actual Credits 6

Requirement Select
- Upper Division Electives (6 cr.) (Generic)

Actual Credits 6

Requirement Select
- Upper Division Primary Ag Concentration (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Upper Division Ag Electives (6 cr.) (Generic)

Actual Credits 6

Requirement Select
- AGR4920 - Senior Problem

Actual Credits 3

Requirement Select
- Upper Division Electives (6 cr.) (Generic)

Actual Credits 6

AGRI-APA - Agriculture, Agronomy and Precision Agriculture Concentration, B.S.AG.

Program Overview

Program Long Title
Agriculture, Agronomy and Precision Agriculture Concentration, B.S.AG.

College/School
Agriculture and Human Ecology

Department(s)
Agriculture

Requirements

Simple Requirements

Agriculture, Agronomy & Precision Agriculture Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Agronomy & Precision Agriculture concentration takes MATH1530, MATH1710, MATH 1730, MATH1830, or MATH1910.

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Complete six hours from the approved Humanities/Fine arts list.

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Complete Six hours from the approved Social/Behavioral Sciences list.

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

CHEM 1010 or 1110 and CHEM 1020 or 1120 fulfill General Education science requirement.

Communication - Oral Communication (3 cr.)

Earn at least 3 credits from the following:

- Communication (GEDC) - Oral Communication

Agriculture, Agronomy & Precision Agriculture Concentration

Type
Completion Requirement

Agronomy & Precision Agriculture Concentration Core

Complete ALL of the following Courses:

- AGR1020 - Connections to Agriculture
- AGRN1100 - Plant Science
- AGRN1110 - Plant Science Laboratory
- ANS1200 - Introductory Animal Science
- ANS1210 - Intro Animal Science Lab
- AGET1600 - Pract Apps in Ag Systems
- AGRN2400 - Introduction to Soils
- AGRN2415 - Soils Lab
- AGBE2100 - Econ of Agriculture
- AGBE3220 - AGBE 3220: Data Acquisition and Computer Analysis in Agribusiness
- AGET3520 - Agricultural Spatial Technolog
- AGR2022 - Professionalism in Agriculture
- AGET2110 - Agricultural Engr Technology
  OR AGET3110 - Natural Resource System
- AGET2115 - Agricultural Engr Tech Lab
  OR AGET3115 - Natural Resource Systems Lab
- AGRN3400 - Crop Pests and Diseases
- AGET3600 - Unmanned Aircraft Operations
- AGET3540 - Fund/GIS & GPS in AG & Nat Rsr
- AGRN4210 - Soil Fertility & Fertilizers
- AGRN3020 - Crops in Sustainable Systems
- AGR3000 - Leadership and Service
  OR AGR3200 - Study Abroad Exploration
- AGRN4950 - Agronomy Topics
- AGRN4100 - Weed Science
- AGET4510 - Agricultural Remote Sensing
- AGET4520 - Agricultural Spatial Tech II
- AGR4500 - Senior Seminar

Complete one group in:

AGET2110 and AGET2115 or

AGET3110 and AGET3115

Agriculture Electives - Upper Division - 12 credits

Complete 12 credits of upper division electives from the following disciplines: AGBE, AGED, AGET, AGHE, AGHT, AGRN, ANS, or ANPS.

Agronomy & Precision Agriculture Concentration Core Requirement

Additional Program Requirements

Complete ALL of the following Courses:

- MATH1530 - Introductory Statistics
  OR MATH1710 - Pre-Calculus Algebra
  OR MATH1830 - Applied Calculus
  OR MATH1910 - Calculus I
  OR MATH1730 - Pre-Calculus Math
- CHEM1010 - Introductory Chemistry I
  OR CHEM1110 - General Chemistry I

Scientific Reasoning Elective (4 cr.)

Complete ANY of the following Course Sets:

- Scientific Reasoning (FFSR)

Additional Comments:
Additional Electives need to complete 120 earned hours:

Electives (5 -7 credits).

Degree Map

Degree Map Name
Degree Plan - Agriculture, Agronomy & Precision Agriculture Concentration, B.S.AG.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select

- AGR1020 - Connections to Agriculture

Actual Credits 1

Requirement Select

- AGRN1100 - Plant Science

Actual Credits 3

Requirement Select

- AGRN1110 - Plant Science Laboratory

Actual Credits 1

Requirement Select

- CHEM1010 - Introductory Chemistry I
  OR
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1910 - Calculus I
  OR
- MATH1730 - Pre-Calculus Math

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- ANS1200 - Introductory Animal Science

Actual Credits 3

Requirement Select
- ANS1210 - Intro Animal Science Lab

Actual Credits 1

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- AGBE2100 - Econ of Agriculture

Actual Credits 3

Requirement Select
- AGRN2400 - Introduction to Soils
- **AND** AGRN2415 - Soils Lab

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- AGET1600 - Pract Apps in Ag Systems

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- AGR2022 - Professionalism in Agriculture

Actual Credits 1

Requirement Select
- AGET2110 - Agricultural Engr Technology
- **AND** AGET2115 - Agricultural Engr Tech Lab
  OR
- AGET3110 - Natural Resource System
- **AND** AGET3115 - Natural Resource Systems Lab

Actual Credits 3

Requirement Select
- AGET3520 - Agricultural Spatial Technolog

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- AGBE3220 - AGBE 3220: Data Acquisition and Computer Analysis in Agribusiness

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- AGRN3400 - Crop Pests and Diseases

Actual Credits 3

Requirement Select
- AGET3600 - Unmanned Aircraft Operations

Actual Credits 3

Requirement Select
- AGET3540 - Fund/GIS & GPS in AG & Nat Rsr

Actual Credits 3

Requirement Select
- AGRN4210 - Soil Fertility & Fertilizers

Actual Credits 3

Requirement Select
- General Elective (1 cr.)
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Upper Division Agriculture Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- AGR3000 - Leadership and Service
  OR
- AGR3200 - Study Abroad Exploration

Actual Credits 3

Requirement Select
- AGRN4950 - Agronomy Topics

Actual Credits 3

Requirement Select
- General Elective (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select
- AGRN3020 - Crops in Sustainable Systems

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	12

Requirement Select
- AGRN4100 - Weed Science

Actual Credits 3

Requirement Select
- AGET4510 - Agricultural Remote Sensing

Actual Credits 3

Requirement Select
- General Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Upper Division Agriculture Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- AGR4500 - Senior Seminar

Actual Credits 1

Requirement Select
- AGET4520 - Agricultural Spatial Tech II

Actual Credits 3

Requirement Select
- Upper Division Agriculture Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Upper Division Agriculture Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- General Elective (2 cr.)
  (Generic)

Actual Credits 2

Requirement Select
- Upper-division Agriculture electives can be taken from any Agriculture discipline (AGBE, AGED, AGET, AGHE, AGHT, AGRN, ANS, or ANPS).
  (Generic)

Actual Credits -

AGRI-HLTM - Agriculture, Horticulture, Landscape, and Turfgrass Management Concentration, B.S.AG.

Program Overview

Program Long Title
Agriculture, Horticulture, Landscape, and Turfgrass Management Concentration, B.S.AG.

College/School
Agriculture and Human Ecology

Department(s)
Agriculture

Requirements

Simple Requirements

Agriculture, Horticulture, Landscape, & Turf Management Concentration, B.S.AG. (120 hours)

Type
Completion Requirement

Flight Foundation Requirements - Communication (9 hours)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
3. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Additional Flight Foundation Requirements

Complete ALL of the following Course Sets:

- Humanities/Cultural Expression (FFHC)
- Social and Behavioral Sciences (GEDS)
- Quantitative Reasoning and Analysis (FFQR)
- Historical Foundations (FFHF)
- Scientific Reasoning (FFSR)
- Financial Literacy or Digital Literacy (FFDL)

Total hours required in each category:

Quantitative Reasoning and Analysis (3 cr.)

Historical Foundations (6 cr.)

Humanities and Cultural Expression (6 cr.)

Social and Behavioral Science (6 cr.)

Scientific Reasoning (8 cr.)

Financial Literacy or Digital Literacy (3 cr.)

Major/Concentration Core Requirements

Complete ALL of the following Courses:

- AGR1020 - Connections to Agriculture
- AGRN1100 - Plant Science
  AND AGRN1110 - Plant Science Laboratory
- AGET1600 - Pract Apps in Ag Systems
- ANS1200 - Introductory Animal Science
  AND ANS1210 - Intro Animal Science Lab
- AGRN2400 - Introduction to Soils
  AND AGRN2415 - Soils Lab
- AGR2022 - Professionalism in Agriculture
- AGBE2100 - Econ of Agriculture
- AGHT3410 - Plant Propagation
- AGHT3450 - Dendrology
- AGET3560 - Turf Systems Irrigation Design
  AND AGET3565 - Turf Sys Irrigation Design Lab
- AGHT3470 - Landscape Plant Mtrls
- AGHT3030 - Integrated Pest Management
- AGHT4410 - Nursery Production and Mgmt
- AGR3000 - Leadership and Service
- AGHT4410 - Nursery Production and Mgmt
  OR AGHT4420 - Greenhouse Production and Mgmt
- AGR4500 - Senior Seminar
- CHEM1010 - Introductory Chemistry I
- MATH1530 - Introductory Statistics
- BIOL2310 - General Botany
- DS2810 - DS 2810: Computer Applications in Organizations

Additional Requirements:

- **(AGET 2110 and AGET 2115) or (AGET 3110 and AGET 3115)**
- **HLTM Electives (6 cr.)**
- **Upper Division Ag Electives (15 cr.) - can be taken from any Agriculture discipline**
- **Management Electives (6 cr.)**
- **Electives (7 cr.)**

Additional Comments:
HLTM Electives: AGRN 3100, AGET 3320/AGET3325, BIOL 3200, BIOL 4250, BIOL 4310, BIOL 4320.

Management Electives: ACCT 2110, BMGT 3510, BMGT 3630, FIN 3210, LAW 2810, MKT 3400, MKT 4500.

Degree Map

Degree Map Name
Agriculture, Horticulture, Landscape & Turf Management Concentration, B.S.AG.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	Fall Semester	15

Requirement Select
- AGR1020 - Connections to Agriculture

Actual Credits 1

Requirement Select
- AGRN1100 - Plant Science
- **AND** AGRN1110 - Plant Science Laboratory

Actual Credits 4

Requirement Select
- CHEM1010 - Introductory Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Spring Semester	16

Requirement Select
- AGET1600 - Pract Apps in Ag Systems

Actual Credits 3

Requirement Select
- ANS1200 - Introductory Animal Science
- **AND** ANS1210 - Intro Animal Science Lab

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Fall Semester	15

Requirement Select
- BIOL2310 - General Botany

Actual Credits 4

Requirement Select
- AGRN2400 - Introduction to Soils
- **AND** AGRN2415 - Soils Lab

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- DS2810 - DS 2810: Computer Applications in Organizations

Actual Credits 3

Requirement Select
- Elective (1 cr.)
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	Spring Semester	15

Requirement Select
- AGR2022 - Professionalism in Agriculture

Actual Credits 1

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- AGBE2100 - Econ of Agriculture

Actual Credits 3

Requirement Select
- AGET2110 - Agricultural Engr Technology
- **AND** AGET2115 - Agricultural Engr Tech Lab
  OR
- AGET3110 - Natural Resource System
- **AND** AGET3115 - Natural Resource Systems Lab

Actual Credits 3

Requirement Select
- Elective (2 cr.)
  (Generic)

Actual Credits 2

Year	Semester	Actual Credits
Junior Year	Fall Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- AGHT3410 - Plant Propagation

Actual Credits 3

Requirement Select
- AGHT3450 - Dendrology

Actual Credits 3

Requirement Select
- Upper Division (3000-4000 level) Ag. Elective (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring Semester	12

Requirement Select
- AGET3560 - Turf Systems Irrigation Design
- **AND** AGET3565 - Turf Sys Irrigation Design Lab

Actual Credits 3

Requirement Select
- ACCT2110 - Principles of Accounting I
  OR
- BMGT3510 - Mgmt/Organizational Behavior
  OR
- BMGT3630 - Human Resource Management
  OR
- FIN3210 - Principles/Managerial Fin
  OR
- MKT3400 - Principles of Marketing
  OR
- MKT4500 - Retail Marketing Mgmt
  OR
- LAW4720 - Business Law

Actual Credits 3

Requirement Select
- AGHT3030 - Integrated Pest Management

Actual Credits 3

Requirement Select
- AGHT3470 - Landscape Plant Mtrls

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Fall Semester	18

Requirement Select
- AGRN3100 - Turfgrass Management
  OR
- AGET3320 - Small Power Equipment
- **AND** AGET3325 - Small Power Equipment Lab
  OR
- BIOL3200 - General Microbiology
  OR
- BIOL4250 - Economic Botany
  OR
- BIOL4310 - Plant Anatomy
  OR
- BIOL4320 - Plant Physiology

Actual Credits 3

Requirement Select
- ACCT2110 - Principles of Accounting I
  OR
- BMGT3510 - Mgmt/Organizational Behavior
  OR
- BMGT3630 - Human Resource Management
  OR
- FIN3210 - Principles/Managerial Fin
  OR
- LAW2810 - Business Legal Env & Ethics
  OR
- MKT3400 - Principles of Marketing
  OR
- MKT4500 - Retail Marketing Mgmt

Actual Credits 3

Requirement Select
- Upper Division Ag Electives (12 cr.) (Generic)

Actual Credits 12

Year	Semester	Actual Credits
Senior Year	Spring Semester	14

Requirement Select
- AGR3000 - Leadership and Service

Actual Credits 3

Requirement Select
- AGRN3100 - Turfgrass Management
  OR
- AGET3320 - Small Power Equipment
- **AND** AGET3325 - Small Power Equipment Lab
  OR
- BIOL3200 - General Microbiology
  OR
- BIOL4250 - Economic Botany
  OR
- BIOL4310 - Plant Anatomy
  OR
- BIOL4320 - Plant Physiology

Actual Credits 3

Requirement Select

- AGR4500 - Senior Seminar

Actual Credits 1

Requirement Select

- AGHT4410 - Nursery Production and Mgmt
  OR
- AGHT4420 - Greenhouse Production and Mgmt

Actual Credits 3

Requirement Select

- Electives (4 cr.)
  (Generic)

Actual Credits 4

AGRI-MIN - Agriculture Minor

Program Overview

Program Long Title
Agriculture Minor

College/School
Agriculture and Human Ecology

Department(s)
Agriculture

Requirements

Simple Requirements

Minor in Agriculture (AGRI)

An Agriculture Minor requires completion of 15 hours (including 6 upper division hours) taken from the following disciplines:

AGBE, AGCM, AGED, AGET, AGHT, AGR, AGRN, ANPS, ANS, and ATOU.

AGRI-SWC - Agriculture, Soil & Water Conservation Concentration, B.S.AG.

Program Overview

Program Long Title
Agriculture, Soil & Water Conservation Concentration, B.S.AG.

College/School
Agriculture and Human Ecology

Department(s)
Agriculture

Requirements

Simple Requirements

Agriculture, Soil & Water Conservation Concentration, B.S. AG. (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Environmental Agriscience concentration takes MATH1530, MATH1710, MATH 1730, MATH1830, or MATH 1910.

Flight Foundation Core -Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Complete ANY of the following Course Sets:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Experssion(6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Complete six hours from the approved Humanities/Fine arts list.

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Complete Six hours from the approved Social/Behavioral Sciences list.

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Soil & Water Conservation Concentration Core

Complete ALL of the following Courses:

- AGR1020 - Connections to Agriculture
- AGRN1100 - Plant Science
  AND AGRN1110 - Plant Science Laboratory
- AGET1600 - Pract Apps in Ag Systems
- ANS1200 - Introductory Animal Science
- ANS1210 - Intro Animal Science Lab
- AGRN2400 - Introduction to Soils
  AND AGRN2415 - Soils Lab
- AGBE2100 - Econ of Agriculture
- AGR2022 - Professionalism in Agriculture
- AGR3000 - Leadership and Service
- AGR4500 - Senior Seminar
- AGRN4220 - Environmental Soil Chem
- AGRN4230 - Soil Classification

Additional Requirements:

- (AGET 2110 and AGET 2115) or (AGET 3110 and AGET 3115)
- Upper Division Ag Electives (12 cr.) - select from any Agriculture discipline.

Additional Requirements:

Complete ALL of the following Courses:

- CHEM1010 - Introductory Chemistry I
- MATH1530 - Introductory Statistics
- GEOL1040 - Physical Geology
- DS2810 - DS 2810: Computer Applications in Organizations
- GEOL1045 - Earth Environ Resrces Soc
- BIOL4840 - Limnology
- BIOL3130 - General Ecology
- GEOL3200 - Water Resources
- GEOL4150 - Geomorphology
- ELECTIVE - Elective Credit

Additional requirement:

Electives (11 credits)

Degree Map

Degree Map Name
Degree Plan - Agriculture, Soil & Water Conservation Concentration, B.S.AG.
Total Degree Map Credits
121
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select

- AGRN1100 - Plant Science

Actual Credits 3

Requirement Select

- AGRN1110 - Plant Science Laboratory

Actual Credits 1

Requirement Select

- AGR1020 - Connections to Agriculture

Actual Credits 1

Requirement Select

- CHEM1010 - Introductory Chemistry I

Actual Credits 4

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- MATH1530 - Introductory Statistics

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select

- AGET1600 - Pract Apps in Ag Systems

Actual Credits 3

Requirement Select

- ANS1200 - Introductory Animal Science

Actual Credits 3

Requirement Select

- ANS1210 - Intro Animal Science Lab

Actual Credits 1

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Electives (4 cr.) (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- DS2810 - DS 2810: Computer Applications in Organizations

Actual Credits 3

Requirement Select
- AGRN2400 - Introduction to Soils

Actual Credits 3

Requirement Select
- AGRN2415 - Soils Lab

Actual Credits 1

Requirement Select
- Upper Division Ag Elective (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- GEOL1045 - Earth Environ Resrces Soc

Actual Credits 4

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- AGBE2100 - Econ of Agriculture

Actual Credits 3

Requirement Select
- AGET2110 - Agricultural Engr Technology
- **AND** AGET2115 - Agricultural Engr Tech Lab

  OR
- AGET3110 - Natural Resource System
- **AND** AGET3115 - Natural Resource Systems Lab

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- BIOL4840 - Limnology

Actual Credits 3

Requirement Select
- BIOL3130 - General Ecology

Actual Credits 4

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Upper Division Ag Elective (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- AGR2022 - Professionalism in Agriculture

Actual Credits 1

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Upper Division Ag Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- GEOL3200 - Water Resources

Actual Credits 3

Requirement Select
- Electives (4 cr.)
  (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- AGR3000 - Leadership and Service

Actual Credits 3

Requirement Select
- GEOG4150 - Geomorphology

Actual Credits 4

Requirement Select
- AGET3540 - Fund/GIS & GPS in AG & Nat Rsr

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- AGR4500 - Senior Seminar

Actual Credits 1

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- AGRN4220 - Environmental Soil Chem

Actual Credits 3

Requirement Select
- AGRN4230 - Soil Classification

Actual Credits 3

Requirement Select
- Upper Division Ag Electives (3 cr.)
  (Generic)

Actual Credits 3

ASCI-ANPS - Animal Science, Poultry Science Concentration, B.S.

Program Overview

Program Long Title
Animal Science, Poultry Science Concentration, B.S.

College/School
Agriculture and Human Ecology

Department(s)
Agriculture

Requirements

Simple Requirements

Animal Science, Poultry Science Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Animal Science, Poultry Science Concentration

Type
Completion Requirement

Poultry Science Concentration Core

Complete ALL of the following Courses:

- AGR1020 - Connections to Agriculture
- ANS1200 - Introductory Animal Science
- ANS1210 - Intro Animal Science Lab
- ANPS1300 - Intro. to Poultry Science
- AGET1600 - Pract Apps in Ag Systems
- ANPS2010 - Poultry Management Systems
- ANS3330 - Anat/Phys of Lvstock Animals
- AGR2022 - Professionalism in Agriculture
- ANS3015 - Animal Nutrition
- ANS3140 - Reproduction in Farm Animals
- ANPS3200 - Applied Poultry Nutrition
- ANS3150 - Com Dis & Par-Dom Animals
- ANS3130 - Animal Breeding
- AGR3250 - Introduction to Research
  OR AGR3275 - Prac. Applications in Research
  OR AGR3950 - Advanced Internship
- AGR3000 - Leadership and Service
  OR AGR3200 - Study Abroad Exploration
- ANPS3990 - Exper. Learn/Poultry Science
- AGBE3220 - AGBE 3220: Data Acquisition and Computer Analysis in Agribusiness
- ANS4200 - Poultry Production/Mgmt
- AGR4500 - Senior Seminar
- ANPS4020 - Feed Manufacturing

Additional Requirements:

9 Credits in AGRN 1100, AGBE 2100, AGRN 2400, or (AGET 2110 and AGET 2215 or AGET 3110 and AGET 3115)

Additional Program Requirements

Complete ALL of the following Courses:

- BIOL1123 - General Biology II
- CHEM1010 - Introductory Chemistry I
  OR CHEM1110 - General Chemistry I
- CHEM1020 - Introductory Chemistry II
  OR CHEM1120 - General Chemistry II
- CHEM3005 - Elementary Organic Chemistry
- BIOL3200 - General Microbiology
  OR BIOL3230 - Health Science Microbiology
- ELECTIVE - Elective Credit
- MATH1730 - Pre-Calculus Math
  OR MATH1530 - Introductory Statistics
  OR MATH1630 - Finite Mathematics
  OR MATH1720 - Pre-calculus Trigonometry
  OR MATH1830 - Applied Calculus
  OR MATH1845 - Technical Calculus
  OR MATH1904 - Extended Calculus IA

Electives (6 cr.) - Additional free elective (6 credits) are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Animal Science, Poultry Science Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select

- AGR1020 - Connections to Agriculture

Actual Credits 1

Requirement Select

- ANPS1300 - Intro. to Poultry Science

Actual Credits 3

Requirement Select

- ANS1200 - Introductory Animal Science

Actual Credits 3

Requirement Select

- ANS1210 - Intro Animal Science Lab

Actual Credits 1

Requirement Select

- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select

- AGBE2100 - Econ of Agriculture
  OR
- AGRN1100 - Plant Science
  OR
- AGRN2400 - Introduction to Soils
  OR
- AGET3110 - Natural Resource System
- **AND** AGET3115 - Natural Resource Systems Lab

Actual Credits 3

Requirement Select
- AGET1600 - Pract Apps in Ag Systems

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH1720 - Pre-calculus Trigonometry
  OR
- MATH1630 - Finite Mathematics
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1845 - Technical Calculus
  OR
- MATH1904 - Extended Calculus IA
  OR
- MATH1730 - Pre-Calculus Math

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- AGET2110 - Agricultural Engr Technology
- **AND** AGET2115 - Agricultural Engr Tech Lab
  OR
- AGRN1100 - Plant Science
  OR
- AGBE2100 - Econ of Agriculture
  OR
- AGRN2400 - Introduction to Soils

Actual Credits 3

Requirement Select
- ANPS2010 - Poultry Management Systems

Actual Credits 3

Requirement Select
- ANS3330 - Anat/Phys of Lvstock Animals

Actual Credits 3

Requirement Select
- CHEM1010 - Introductory Chemistry I
  OR
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- AGR2022 - Professionalism in Agriculture

Actual Credits 1

Requirement Select
- CHEM1020 - Introductory Chemistry II
  OR
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- ANS3015 - Animal Nutrition

Actual Credits 3

Requirement Select
- CHEM3005 - Elementary Organic Chemistry

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- ANS3140 - Reproduction in Farm Animals

Actual Credits 3

Requirement Select

- AGRN1100 - Plant Science
  OR
- AGBE2100 - Econ of Agriculture
  OR
- AGRN2400 - Introduction to Soils
  OR
- AGET2110 - Agricultural Engr Technology
- **AND** AGET2115 - Agricultural Engr Tech Lab

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select

- ANPS3200 - Applied Poultry Nutrition

Actual Credits 3

Requirement Select

- ANS3150 - Com Dis & Par-Dom Animals

Actual Credits 3

Requirement Select

- ANS3310 - Meat, Dairy, Poultry Prod

Actual Credits 3

Requirement Select

- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- AGR3250 - Introduction to Research
- **AND** AGR3275 - Prac. Applications in Research
  OR
- AGR3950 - Advanced Internship

Actual Credits 3

Requirement Select

- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select

- AGR3000 - Leadership and Service
  OR
- AGR3200 - Study Abroad Exploration

Actual Credits 3

Requirement Select

- ANPS3990 - Exper. Learn/Poultry Science

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select

- BIOL3200 - General Microbiology
  OR
- BIOL3230 - Health Science Microbiology

Actual Credits 4

Requirement Select

- AGBE3220 - AGBE 3220: Data Acquisition and Computer Analysis in Agribusiness

Actual Credits 3

Requirement Select

- ANS4200 - Poultry Production/Mgmt

Actual Credits 3

Requirement Select

- AGR4500 - Senior Seminar

Actual Credits 1

Requirement Select

- ANPS4020 - Feed Manufacturing

Actual Credits 3

ASCI-ANSI - Animal Science, Animal Science Industries Concentration, B.S.

Program Overview

Program Long Title
Animal Science, Animal Science Industries Concentration, B.S.

College/School
Agriculture and Human Ecology

Department(s)
Agriculture

Requirements

Simple Requirements

Animal Science, Animal Science Industries Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- General Fine Arts/Dual Focus Concentration - Wood

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Earn at least 3 credits from the following:

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Complete 3 hours from the approved Financial/Digital Literacy list

Animal Science, Animal Science Industries Concentration

Type
Completion Requirement

Animal Science Industries Concentration Core

Complete ALL of the following Courses:
- AGR1020 - Connections to Agriculture
- ANS1200 - Introductory Animal Science
- ANS1210 - Intro Animal Science Lab
- ANS2020 - Livestock Management
- AGET1600 - Pract Apps in Ag Systems
- AGR2022 - Professionalism in Agriculture
- ANS2110 - Livestock Evaluation
- ANS3130 - Animal Breeding
- ANS3015 - Animal Nutrition
- ANS3140 - Reproduction in Farm Animals
- ANS3020 - Feeds and Feeding
- ANS3150 - Com Dis & Par-Dom Animals
- ANS3310 - Meat, Dairy, Poultry Prod
- AGBE3220 - AGBE 3220: Data Acquisition and Computer Analysis in Agribusiness
- AGRN4130 - Forage Crops Prod & Mgmt
- AGR4500 - Senior Seminar

9 Credits from AGRN 1100, AGRN 2400, AGBE 2100, or (AGET 2110 and 2115 or AGET 3110 and 3115).

3 credits form AGR 3000 or AGR 3250 and AGR 3275.

4000-level ANS Production - 6 credits: select two classes from ANS4110, ANS4120, ANS4130, ANS4150, ANS4200, ANS4250, ANS4310, ANS4940, or ANS4950.

Upper Division Ag. Elective (3000-4000 level) - can be taken from any Agriculture discipline.

Additional Program Requirements

Complete ALL of the following Courses:
- BIOL1123 - General Biology II
- MATH1530 - Introductory Statistics
  OR MATH1630 - Finite Mathematics
  OR MATH1830 - Applied Calculus
  OR MATH1845 - Technical Calculus
  OR MATH1904 - Extended Calculus IA
  OR MATH1730 - Pre-Calculus Math
  OR MATH1720 - Pre-calculus Trigonometry
- CHEM1010 - Introductory Chemistry I
  OR CHEM1110 - General Chemistry I
- CHEM1020 - Introductory Chemistry II
  OR CHEM1120 - General Chemistry II
- CHEM3005 - Elementary Organic Chemistry

3 Credits in BIOL 3000:4000 or WFS 30004000 level courses.

Electives (6 cr.) - An additional 6-hours of free elective may be needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Animal Science, Animal Science Industries, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- AGR1020 - Connections to Agriculture

Actual Credits 1

Requirement Select
- ANS1200 - Introductory Animal Science

Actual Credits 3

Requirement Select
- ANS1210 - Intro Animal Science Lab

Actual Credits 1

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1730 - Pre-Calculus Math
  OR
- MATH1530 - Introductory Statistics
  OR
- MATH1630 - Finite Mathematics
  OR
- MATH1720 - Pre-calculus Trigonometry
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1845 - Technical Calculus
  OR
- MATH1904 - Extended Calculus IA

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- AGBE2100 - Econ of Agriculture
  OR
- AGRN2400 - Introduction to Soils
  OR
- AGET3110 - Natural Resource System
- **AND** AGET3115 - Natural Resource Systems Lab
  OR
- AGRN1100 - Plant Science

Actual Credits 3

Requirement Select
- AGET1600 - Pract Apps in Ag Systems

Actual Credits 3

Requirement Select
- ANS2020 - Livestock Management

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- AGBE2100 - Econ of Agriculture
  OR
- AGET3110 - Natural Resource System
- **AND** AGET3115 - Natural Resource Systems Lab
  OR
- AGRN1100 - Plant Science
  OR
- AGRN2400 - Introduction to Soils

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CHEM1010 - Introductory Chemistry I
  OR
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- ANS2110 - Livestock Evaluation

Actual Credits 3

Requirement Select

- AGET2110 - Agricultural Engr Technology
- **AND** AGET2115 - Agricultural Engr Tech Lab
  OR
- AGRN2400 - Introduction to Soils
  OR
- AGRN1100 - Plant Science
  OR
- AGBE2100 - Econ of Agriculture

Actual Credits 3

Requirement Select

- AGR2022 - Professionalism in Agriculture

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select

- CHEM1020 - Introductory Chemistry II
  OR
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- ANS3130 - Animal Breeding

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	17

Requirement Select

- ANS3015 - Animal Nutrition

Actual Credits 3

Requirement Select

- CHEM3005 - Elementary Organic Chemistry

Actual Credits 4

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- ANS3140 - Reproduction in Farm Animals

Actual Credits 3

Requirement Select

- 3000/4000-level BIOL or WFS (4 cr.)
  (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- ANS3020 - Feeds and Feeding

Actual Credits 3

Requirement Select

- ANS3150 - Com Dis & Par-Dom Animals

Actual Credits 3

Requirement Select

- ANS3310 - Meat, Dairy, Poultry Prod

Actual Credits 3

Requirement Select

- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	12

Requirement Select

- 4000-Level ANS Production Course Credit: 3.
  (Generic)

Actual Credits 3

Requirement Select

- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- AGR3000 - Leadership and Service
  OR
- AGR3250 - Introduction to Research
- **AND** AGR3275 - Prac. Applications in Research

Actual Credits 3

Requirement Select

- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select

- AGRN4130 - Forage Crops Prod & Mgmt

Actual Credits 3

Requirement Select

- 4000-Level ANS Production Course Credit: 3.
  (Generic)

Actual Credits 3

Requirement Select

- Ag Upper Division Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- AGR4500 - Senior Seminar

Actual Credits 1

Requirement Select

- AGBE3220 - AGBE 3220: Data Acquisition and Computer Analysis in Agribusiness

Actual Credits 3

ASCI-ANSV - Animal Science, Pre-Veterinary Science Concentration, B.S.

Program Overview

Program Long Title

Animal Science, Pre-Veterinary Science Concentration, B.S.

College/School

Agriculture and Human Ecology

Department(s)

Agriculture

Requirements

Simple Requirements

Animal Science, Pre-Veterinary Science Concentration Flight Foundations

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Complete six hours from the approved Humanities/Cultural Expression list.

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Complete Six hours from the approved Social/Behavioral Sciences list.

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Complete eight hours from the approved Scientific Reasoning list.

Flight Foundation Core - Financial and Digital Literacy

Complete 3 hours from the approved Financial and Digital Literacy course list

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Animal Science Pre-Veterinary Science Concentration Degree Requirements

Type
Completion Requirement

Complete ALL of the following Courses:

- AGR1020 - Connections to Agriculture
- ANS1200 - Introductory Animal Science
- ANS1210 - Intro Animal Science Lab
- ANS2020 - Livestock Management
- AGR2022 - Professionalism in Agriculture
- ANS3330 - Anat/Phys of Lvstock Animals
- ANS3140 - Reproduction in Farm Animals
- ANS3150 - Com Dis & Par-Dom Animals
- ANS3015 - Animal Nutrition
- AGR4500 - Senior Seminar

Additional Requirements:

6 Credits from AGRN 1100, AGBE 2100, AGRN 2400, or (AGET 2110 and AGET 2115 or AGET3110 and 3115).

4000-level ANS Production - 3 credits from ANS 4110, 4120, 4130, 4150, 4200, 4310, 4940, or 4950.

Additional Course Requirements

Complete ALL of the following Courses:

- BIOL1113 - General Biology I
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM3010 - Organic Chemistry I
- BIOL1123 - General Biology II
- BIOL3140 - Cellular Biology
- CHEM3020 - Organic Chemistry II
- PHYS2010 - Algebra-based Physics I
- BIOL3810 - General Genetics
- PHYS2020 - Algebra-based Physics II
- CHEM4610 - General Biochemistry I
- CHEM4620 - General Biochemistry II
- MATH1530 - Introductory Statistics
  OR MATH1630 - Finite Mathematics
  OR MATH1720 - Pre-calculus Trigonometry
  OR MATH1830 - Applied Calculus
  OR MATH1845 - Technical Calculus
  OR MATH1904 - Extended Calculus IA
  OR AGET1600 - Pract Apps in Ag Systems
  OR MATH1730 - Pre-Calculus Math

Choose **6 hours** of MATH 1530, 1630, 1710, 1720, 1830, 1845, 1904, or AGET 1600

Elective Credits

Seven total hours of elective credits

Earn at least 7 credits from the following:

- Advisor Guided Electives

Students will take **4 hours** of general elective credits and **3 hours** of upper division elective credits.

Degree Map

Degree Map Name
Degree Plan - Animal Science, Pre-Veterinary Science, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select

- AGR1020 - Connections to Agriculture

Actual Credits 1

Requirement Select

- ANS1200 - Introductory Animal Science

Actual Credits 3

Requirement Select

- ANS1210 - Intro Animal Science Lab

Actual Credits 1

Requirement Select

- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select

- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- AGRN2400 - Introduction to Soils
  OR
- AGBE2100 - Econ of Agriculture
  OR
- AGET3110 - Natural Resource System
- **AND** AGET3115 - Natural Resource Systems Lab
  OR
- AGRN1100 - Plant Science

Actual Credits 3

Requirement Select
- ANS2020 - Livestock Management

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1630 - Finite Mathematics
  OR
- MATH1845 - Technical Calculus
  OR
- MATH1904 - Extended Calculus IA
  OR
- MATH1720 - Pre-calculus Trigonometry
  OR
- MATH1730 - Pre-Calculus Math

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- AGET2110 - Agricultural Engr Technology
- **AND** AGET2115 - Agricultural Engr Tech Lab
  OR
- AGRN1100 - Plant Science
  OR
- AGRN2400 - Introduction to Soils
  OR
- AGBE2100 - Econ of Agriculture

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- AGR2022 - Professionalism in Agriculture

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- CHEM3020 - Organic Chemistry II

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- BIOL3140 - Cellular Biology

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- ANS3140 - Reproduction in Farm Animals

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I

Actual Credits 4

Requirement Select

- MATH1530 - Introductory Statistics
  OR
- MATH1630 - Finite Mathematics
  OR
- MATH1720 - Pre-calculus Trigonometry
  OR
- MATH1845 - Technical Calculus
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1904 - Extended Calculus IA
  OR
- AGET1600 - Pract Apps in Ag Systems

Actual Credits 3

Requirement Select

- ANS3330 - Anat/Phys of Lvstock Animals

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select

- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select

- ANS3150 - Com Dis & Par-Dom Animals

Actual Credits 3

Requirement Select

- PHYS2020 - Algebra-based Physics II

Actual Credits 4

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	12

Requirement Select

- 4000-Level ANS Production Course Credit: 3.
  (Generic)

Actual Credits 3

Requirement Select

- CHEM4610 - General Biochemistry I

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- ANS3015 - Animal Nutrition

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select

- CHEM4620 - General Biochemistry II

Actual Credits 3

Requirement Select

- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select

- AGR4500 - Senior Seminar

Actual Credits 1

Requirement Select

- Upper Division Electives
  (Generic)

Actual Credits 3

Requirement Select

- Electives (4 cr.)
  (Generic)

Actual Credits 4

ULD-CER - ULead Certificate

Program Overview

Program Long Title
ULead Certificate

College/School
Agriculture and Human Ecology

Department(s)
Agriculture

Requirements

Simple Requirements

uLEAD Certificate

Type
Completion Requirement

uLEAD (ULD) Certificate (19 hours)

Complete ALL of the following Courses:

- AGHE3000 - Leadership and Service (Inactive)
- AGED3010 - Professional Leadership Dev
- AGCM4850 - Internship in Ag Comm
  OR AGCM4860 - Internship in Ag Comm
  OR AGED4850 - Internship
  OR AGED4860 - Internship

uLEAD Electives (9 hours)

Earn at least 9 credits from the following:

- BMGT3510 - Mgmt/Organizational Behavior
- ECED4260 - Early Childhood Program Leadership, Administration and Assessment
- ENTR1810 - Gov Sch/Innovtn & Entrprship
- LIST2091 - Service Learning
- LIST2093 - Service Learning
- LIST2300 - Academic/Community Connections
- LIST3500 - Non-Profit Leadership
- MS1020 - Basic Leadership
- MS2010 - Advanced Leadership
- MS3010 - Small Unit Leadership
- MS4010 - Leadership, Mgmt & Ethics
- NURS4450 - Leadership & Management
- NURS4451 - Leadership & Management Lab
- PSY3410 - Group Dynamics

uLEAD Core Courses: AGHE 3000, AGED 3010 and an internship chosen from AGCM 4850, 4860, AGED 4850 or 4860. The remaining nine credits are chosen from the approved uLEAD electives.

Courses

Course Information

Course Title
World Food and Society

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Food production and distribution for the advancement of societies in developed and developing countries.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Social/Behavioral Sciences)..

Course Information

Course Title
Econ of Agriculture

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
2100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Economic principles as they relate to agriculture, and the place of agriculture and agribusiness in the national economy.

College/School
Agriculture and Human Ecology

Internation Trade in Agriculture

Course Information

Course Title
Intl Trade in Agriculture

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
3050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course examines the economic principles and global dynamics that influence international trade in agricultural products. Students will apply trade theories to agricultural markets, analyze the effects of policies such as tariffs, quotas, and subsidies, and evaluate global trade patterns and institutions that shape agricultural trade. Emphasis is placed on understanding exchange rate movements and their impacts on agricultural competitiveness, as well as developing evidence-based recommendations related to agricultural trade policy and market strategies.

College/School
Agriculture and Human Ecology

Syllabus
16e Agriculture - 2 New Courses, 3 Course Changes, 1 Curriculum Change - FF - Agribusiness Management.pdf

Course Information

Course Title
Agricultural Marketing

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
3100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An overview of the US agricultural marketing system. The functions of the marketing system will be covered as well as current marketing problems and possibilities for improvement.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGBE 2100.

Course Information

Course Title
Agriculture Price Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
3120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Institutions involved in marketing agricultural products and the use of futures and hedging.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGBE 2100.

Note:
(O) and (E) Denote Odd and Even Years Respectively

AGBE 3220: Data Acquisition and Computer Analysis in Agribusiness

Course Information

Course Title
Data Acquis/Comp Anlys-AGBE

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
3220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Where agricultural data comes from and its use in analyzing complex and unique problems facing the agricultural firm. Specific emphasis on financial, statistical spreadsheet functions will be addressed. Additional topics include data analysis, data organization and communication.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGBE 2100 and MATH 1710 or higher.

Course Information

Course Title
Agricultural Finance

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
3400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACCT 2110. Financial statements and analyses for farms and agribusiness firms, time value of money, capital and credit requirements and sources.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ACCT 2110.

Course Information

Course Title
Intro to Agribusiness Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
3430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: AGBE 2100. An introduction to the application of management principles and processes to agricultural business firms. Planning and operating in domestic and international markets will be addressed.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGBE 2100.

Course Information

Course Title
Agribusiness Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
3950

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: AGBE 2100 and Junior Standing. Supervised off-campus internship in production agriculture, or the agricultural service industry, or an agricultural agency of the government. A minimum of eight weeks of full-time work is required to fulfill three credit hours.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGBE 2100 and junior standing.

Note:
Supervised off-campus internship in production agriculture, or the agricultural service industry, or an agricultural agency of the government. A minimum of eight weeks of full-time work is required to fulfill three credit hours.

Course Information

Course Title
Agribusiness Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
4030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: AGBE 2100 or consent of instructor. Economics and business principles applied to farm management, resources allocation, budgeting, and records.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGBE 2100

Agricultural Prices, Futures, and Options

Course Information

Course Title
Ag Prices, Futures & Options

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: AGBE 2100 and AGBE 3100. Understanding the use of futures market contracts and options to limit risk exposure to producers and agribusiness firms. The study of market price determination, forecasting basis, technical analysis and on actual trading of futures and options through market simulation programs will be addressed.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGBE 2100 and AGBE 3100.

Course Information

Course Title
Natural Resource Economics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: AGBE 2100 or ECON 2010 or consent of instructor. Issues and policies involving pollution, depletable and renewable resources and sustainable development.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGBE 2100 or ECON 2010.

Course Information

Course Title
Agricultural & Food Policy

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
4130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: AGBE 2100. Rural and urban values, farm problems, relationship of agriculture to public policy, policy vs. programs, and appraisal of program results.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGBE 2100.

Course Information

Course Title
Agribusiness Statistics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Sampling, probability, distributions, statistical tests, analysis of variance, regressions, and interpretation of data as related to agricultural business.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Entrepreneurship/AG Business

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
4300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: Senior Standing and AGBE 2100 and AGBE 3400 and AGBE 3430. Emphasis will be placed on understanding the importance of entrepreneurs in the food, agriculture and rural economies. Planning techniques will be demonstrated that ensure the highest possible rate of economic and financial feasibility of agricultural business ventures . Emphasis on processes for developing a comprehensive enterprise analysis, including management information system components, production, marketing and financial plans, enterprise budgets, and evaluation of risk management alternatives. There will be exchanges with successful lenders, entrepreneurs, and other agribusiness management personnel.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Senior Standing and AGBE 2100 and AGBE 3400 and AGBE 3430.

Supply Chain Management in Agriculture

Course Information

Course Title
Supply Chain Management in Ag

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
4400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course examines the design, coordination, and management of agricultural supply chains from input suppliers to final consumers. Students will evaluate tradeoffs among cost, responsiveness, efficiency, and risk while analyzing real-world agribusiness cases. Emphasis is placed on operational decision-making, network design, sourcing, and resilience in agricultural systems, supported by practical tools such as Excel for forecasting and inventory analysis. By the end of the course, students will be able to develop and justify strategic recommendations to improve the performance and competitiveness of agribusiness supply chains.

College/School
Agriculture and Human Ecology

Syllabus
16e Agriculture - 2 New Courses, 3 Course Changes, 1 Curriculum Change - FF - Agribusiness Management.pdf

Requisites and Restrictions

Prerequisite:
AGBE 2100

Course Information

Course Title
Agribusiness Econ Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
4940

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agribusiness economics under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agribusiness Econ Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
4950

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agribusiness economics under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agribusiness Economics Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
4960

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agribusiness economics under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agribusiness Economics Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
4970

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agribusiness economics under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agribusiness Economics Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGBE

Course Number
4980

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agribusiness economics under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Internship in Ag Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGCM

Course Number
4850

Credit Hours

Credit Hours:
4

Other Hours

Min:
4

Course Description
Prerequisite: Senior standing in Agricultural Communications. Supervised internship in an educational, Extension, or agricultural business/agency involving agricultural communications and related fields.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Senior standing in Agricultural Communications.

Course Information

Course Title
Internship in Ag Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGCM

Course Number
4860

Credit Hours

Credit Hours:
4

Other Hours

Min:
4

Course Description
Prerequisite: Senior standing in Agricultural Communications. Supervised internship in an educational, Extension, or agricultural business/agency involving agricultural communications and related fields.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Senior standing in Agricultural Communications.

Course Information

Course Title
Capstone Project In AGCM

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGCM

Course Number
4920

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This capstone course serves as an opportunity for senior AGCM students to collaborate with local and/or state non-profit agencies or for-profit companies in the development and implementation of social media and fundraising campaigns, web sites, video and/or radio programs, news writing, etc.

College/School
Agriculture and Human Ecology

Syllabus
AGCM4920-CapstoneProject_Spring2024.pdf

Requisites and Restrictions

Prerequisite:
AGED 4300 and AGCM 4850 and Junior or Senior standing.

Course Information

Course Title
Intro to Ag & Extension Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
2120

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
History, philosophy, goals, objectives, and current issues in agricultural and extension programs. Early field experience in a high school Agricultural Education program or a County Agricultural Extension Service program.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Meth/Tchg Agriscience

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4110

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: Full admission to the Teacher Education Program. Planning, implementing and evaluating the high school Agriscience course offered for science credit; course and lesson planning; laboratory facilities and equipment; and instructional methods and techniques for agriscience.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Professional Leadership Dev

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
3010

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Leadership styles and roles and their implications for agricultural professionals; developing leadership, communication and interpersonal skills; planning and conducting effective meetings.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Comm/Pub Rel-Ag & Extension Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Publics to be dealt with, public relations media, techniques of establishing and maintaining desirable communications, and public relations in agriculture.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Meth/Techniq-Tch Ag & Ext Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4200

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: Full admission to the Teacher Education Program. Theory and practice in directing learning activities; planning and delivering instruction to formal and informal groups in Agricultural and Extension Education; preparing instructional materials; and using instructional technology.

College/School
Agriculture and Human Ecology

Program Planning & Development in Cooperative Extension

Course Information

Course Title
Program Dev. in Extension

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course concentrates on developing, implementing and evaluating Cooperative Extension programs in 4-H, Agriculture and Natural Resources (ANR), and Master Gardner. This course will also aid in identifying, securing, and developing supportive resources.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Junior or Senior standing

Course Information

Course Title
Prog Pl & Eval/Ag & Extn Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4350

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Advanced principles and procedures used in planning and evaluating Agricultural and Extension Education programs.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4850

Credit Hours

Credit Hours:
4

Other Hours

Min:
4

Course Description
Prerequisite: Senior standing. Supervised internship in an educational, extension, or agricultural business/agency involving agricultural communications and related fields.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
* Senior standing.

Note:
* No more than a total of 12 credits of Work Experience, Internship, and/or Co-op or any combination of these may apply toward the Bachelor of Science degree in Agriculture.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4860

Credit Hours

Credit Hours:
4

Other Hours

Min:
4

Course Description
Prerequisite: Senior standing. Supervised internship in an educational, extension, or agricultural business/agency involving agricultural communications and related fields.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
* Senior standing.

Note:
* No more than a total of 12 credits of Work Experience, Internship, and/or Co-op or any combination of these may apply toward the Bachelor of Science degree in Agriculture.

Course Information

Course Title
Student Teaching/Ag Ed I

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4870

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Corequisites: AGED 4880, 4890. Prerequisites: full admission to Teacher Education Program; senior classification. Application for student teaching should be made at least two semesters in advance, excluding the summer term. All activities directly related to teaching performance, such as planning and presenting lessons, directing study, and managing the classroom. A grade of B or better is required to pass the course.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
full admission to Teacher Education Program; senior classification.

Corequisite:
AGED 4880, AGED 4890.

Course Information

Course Title
Residency I

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4871

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Corequisite: AGED 4872. Performance based clinical experience in authentic settings involving planning appropriate instruction based on student's needs, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice. A grade of B or better is required to pass the course.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGED 4872.

Course Information

Course Title
Professional Seminar I

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4872

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Corequisite: AGED 4871 . Seminar for residency I candidates to develop curriculum, identify effective instructional strategies, and implement appropriate assessment methods to support and meet the needs of all learners.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGED 4871.

Course Information

Course Title
Professional Seminar I

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4873

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course is designed for Residency I candidates to develop engaging strategies that support and meet the needs of all learners. Candidates will identify and learn to implement engaging strategies related to students' developmental, cultural and socioeconomic factors.

College/School
Agriculture and Human Ecology

Syllabus
AGED 4872_4873-2024.docx

Course Information

Course Title
Student Teaching/Ag Ed II

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4880

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Corequisites: AGED 4870, 4890. Non-instructional aspects of teaching, such as personal-professional characteristics, human relations skills, and educational philosophy. A grade of B or better is required to graduate.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGED 4870, AGED 4890.

Course Information

Course Title
Residency II

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4881

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Course Description
Corequisite: AGED 4882 . Performance based full time clinical experience in authentic settings involving planning appropriate instruction based on student's needs, demonstrating effective instructional strategies, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice. A grade of B or better is required to graduate.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGED 4871 with a grade of B.

Corequisite:
AGED 4882.

Course Information

Course Title
Professional Seminar II

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4882

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Corequisite: AGED 4881 . Seminar for residency II candidates supporting professional development in areas of planning, assessment, instruction, classroom management, communication and reflection.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGED 4881.

Course Information

Course Title
Seminar:Education & Society

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4890

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Corequisites: AGED 4870, 4880. Seminar on issues related to the interrelationships among school, culture and society; a historical, philosophical, and sociological analysis.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGED 4870, AGED 4880.

Course Information

Course Title
Residency II

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4900

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Repeatable for Credit:
No

Course Description
Performance based full time clinical experience in authentic settings involving planning appropriate instruction based on student's needs, creating a positive learning environment, communicating and collaborating with colleagues and others, and effectively assessing student learning and reflecting on practice. A grade of B or better is required to graduate.

College/School
Agriculture and Human Ecology

Syllabus
SYL_ELED_4900_09_13_24.docx

Course Information

Course Title
Professional Seminar II

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4925

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
No

Course Description
Performance based clinical experience in authentic settings involving planning appropriate instruction based on students' needs, creating a positive learning environment, communicating and collaborating with colleagues and others, and effectively assessing student learning and reflecting on practice.

College/School
Agriculture and Human Ecology

Syllabus
SYL_ELED_4925_09_13_24.docx

Course Information

Course Title
Agricultural Ed Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4940

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agricultural education under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agricultural Ed Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4950

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agricultural education under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agricultural Education Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4960

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agricultural education under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agricultural Education Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4970

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agricultural education under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agricultural Education Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGED

Course Number
4980

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agricultural education under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Pract Apps in Ag Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
1600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Using dimensional analysis (aka factor analysis) to convert between units and solve problems in cop landscape, livestock, and food systems. Quantitative problem solving to be successful, accurate, efficient and safe in agricultural and food enterprises.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Agricultural Engr Technology

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
2110

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Corequisite: AGET 2115 . Application of engineering principles to agriculture through a selection of independent but related topics while also advancing the students problem solving skills.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGET 2115.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Agricultural Engr Tech Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
2115

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Corequisite: AGET 2110 . Application of engineering principles to agriculture through a selection of independent but related topics.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGET 2110.

Course Information

Course Title
Natural Resource Systems Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
3115

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Corequisite: AGET 3110 . Application of engineering principles to surveying, soil and water conservation and animal waste management.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGET 3110.

Course Information

Course Title
Natural Resource System

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
3110

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Corequisite: AGET 3115 . Application of engineering principles to surveying, soil and water conservation and animal waste management.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGET 3115.

Course Information

Course Title
Small Power Equipment

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
3320

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Corequisite: AGET 3325 . Principles of operation, adjustment and maintenance of small internal combustion engines and associated equipment.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGET 3325.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Small Power Equipment Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
3325

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Corequisite: AGET 3325 . Principles of operation, adjustment and maintenance of small internal combustion engines and associated equipment.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGET 3320.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Agricultural Surveying

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
3510

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
2

Lab Hours

Min:
3

Course Description
Elementary surveying including use of the steel tape, level and transit with practice in traversing, and leveling and area computations.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Agricultural Spatial Technolog

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
3520

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: AGRN 2300. Principles and applications of geospatial technologies supporting precision agriculture/farming and planning for natural resource data management. Global positioning system (GPS), geographic information system (GIS), remote sensing (RS), yield monitoring and mapping, internet information access, and computer software for management decisions.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGRN 2300.

Course Information

Course Title
Fund/GIS & GPS in AG & Nat Rsr

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
3540

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
This introductory course will teach fundamentals of the Global Positioning System (GPS) and Geographic Information System (GIS) concepts, equipment, and software used in agricultural, environmental, and natural resource applications.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Turf Systems Irrigation Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
3560

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Corequisite: AGET 3565 . Irrigation system design for turf-based systems including residential lawns, commercial properties, athletic fields, and golf courses. Irrigation scheduling and water demand are presented to provide management capabilities.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGET 3565.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Turf Sys Irrigation Design Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
3565

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Corequisite: AGET 3560 . Residential, commercial, and athletic irrigation system assembly, installation, maintenance, and troubleshooting.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGET 3560.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Unmanned Aircraft Operations

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
3600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course will teach the fundamentals of unmanned aircraft systems (UAS) concepts and prepare the student to pass the FAA Part 107 certification exam. Students will develop skills necessary for safe UAS operation to improve efficiency within various ag sectors.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Computer Aided Design in Ag

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
3620

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
The principles of computer-aided drafting and design with emphasis on agricultural operations.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGET 2110 or consent of instructor.

Course Information

Course Title
Agri Machinery/Tractors

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4220

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Corequisite: AGET 4225 . Principles of operation, selection, and economic utilization of agricultural power units and equipment.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGET 4225.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Agri Machinery/Tractors Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4225

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Corequisite: AGET 4220 (5220) . Application of agricultural power units and equipment operation principles.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGET 4220 (5220).

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Agricultural Remote Sensing

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4510

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
This course will teach the fundamentals of remote sensing concepts and software used in agricultural, environmental, and natural resource applications.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Agricultural Spatial Tech II

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4520

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Principles and applications of geospatial technologies supporting precision agriculture/farming and planning for natural resource data management. Global positioning system (GPS), geographic information system (GIS), remote sensing (RS), yield monitoring and mapping, Internet information access, and computer software for management decisions.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGET 3520.

Course Information

Course Title
Adv GIS for Ag & Natural Rsrcs

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4540

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisits: AGET 3540 or consent of instructor. This course will teach advanced techniques using Geographic Information System (GIS) concepts, equipment, and software used in agricultural, environmental, and natural resource applications.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGET 3540 or instructor consent.

Course Information

Course Title
Grnhs Struct/Landscape Equip

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selection, design, construction, and operation of greenhouse structures and related nursery and landscaping equipment.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Agricultural Structures

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Planning; drawing; materials; principles of construction with respect to arrangement, location, and environmental control; and plan reading.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Agricultural Processing

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Managing value-added agricultural products through the application of engineering principles to fluid flow, electrical controls, refrigeration, heat transfer, drying, and hydraulic systems.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Engr Tech Design-Agriculture

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4850

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Senior standing or consent of instructor. AGET 4850 is the "capstone" course of the AGET agriculture curriculum. The primary purpose of the course is to provide an educational experience through an agricultural engineering technology project. the course emphasizes teamwork, communication, safety, and analysis for completion of a project. You will gain experience by developing a solution to a "real world" problem. To ensure a real world problem, problems are solicited from agricultural, engineering, and other client groups. Instructors and other faculty will provide guidance and evaluation of your design solutions.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Senior standing or consent of instructor.

Course Information

Course Title
Ag Engr Technology Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4940

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agricultural engineering technology under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Ag Engr Technology Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4950

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agricultural engineering technology under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Ag Engr Technology Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4960

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agricultural engineering technology under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Ag Engr Technology Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4970

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agricultural engineering technology under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Ag Engr Technology Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGET

Course Number
4980

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agricultural engineering technology under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Integrated Pest Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
3030

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: AGRN 1100 and AGRN 1110, Plant Science & Lab. Principles and practices of integrated pest management, including pest and disease identification, symptoms, signs and fundamentals of biocontrols and pesticide safety.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite or corequisite:
AGRN 1100 and AGRN 1110.

Course Information

Course Title
Landscape Horticulture

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
3400

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Basic principles and elements of design for residential and business landscaping. Selection, installation, maintenance, and health management of plants.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Plant Propagation

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
3410

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: BIOL 2310, Botany. Principles and applications associated with asexual and sexual propagation of plants; and activities using proper techniques to ensure success.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
BIOL 2310.

Course Information

Course Title
Floral Arrangement

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
3440

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Fundamentals and theory of floral design with emphasis on arrangements for the home and special occasions.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Dendrology

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
3450

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
The study of trees and the identification of native species commonly found in the mid-South. Adaptability of the species to various ecological conditions of forest ecosystems and importance to wildlife will be discussed.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Interior Plantscaping

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
3460

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Identification, culture, production, and use of foliage plants in interior design; principles and elements of design; and practices of maintenance.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Landscape Plant Mtrls

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
3470

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Uses and the identification of tree, shrub, and herbaceous plant species for landscapes. Ornamental characteristics and the adaptability of the species to various landscape conditions will be discussed.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Nursery Production and Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
4410

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: AGHT 3410 - Plant Production, or consent of Advisor. Principles and practices of commercial nursery site operation, plant cultural requirements, filed and container production, and resource management options.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGHT 3410 or consent by advisor.

Course Information

Course Title
Greenhouse Production and Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
4420

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: AGHT 3410 or consent by Advisor. Principles and activities of controlled environment production and management, crop cultural requirements, and basic scheduling of commercial horticultural crops.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGHT 3410 or consent by advisor.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Horticulture Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
4940

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of horticulture under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Horticulture Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
4950

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Repeatable for Credit:
No

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of horticulture under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Horticulture Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
4960

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of horticulture under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Horticulture Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
4970

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of horticulture under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Horticulture Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGHT

Course Number
4980

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of horticulture under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Connections to Agriculture

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
1020

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Other Hours

Min:
0

Repeatable for Credit:
No

Number Of Repeats:
1

Course Description
An introduction for agricultural students to the social, educational, economic, and career opportunities, which are available on campus, in the local community, and the broader agricultural industry.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Strategies for Success

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
2020

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Course Description
This course is designed to provide students with the tolls needed to persist and succeed in the College of Agriculture and Human Ecology at Tennessee Tech University. Topics covered include: learning styles, study techniques, note-taking, test-taking, personal wellness and finance, effective writing and reading, time management, career and educational planning, and interpersonal skill development. This course does not satisfy requirements for any degree at TTU, it has no prerequisites, is non-transferable, and satisfies one credit towards your total semester credit hours.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Professionalism in Agriculture

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
2022

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Appropriate social and professional standards of behavior as applied to the community and workplace environments.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Community Leadership

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
2100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is limited to TN High School Dual Enrollment students. This course serves as an opportunity for high school students participating in the annual School of Agriculture's Tennessee Leadership Summit to have a greater understanding of leadership as it pertains to their lives and communities. Students will explore leadership models, roles of leaders and followers, concepts of effective leadership, and ethical issues, with special focus on leadership as service in teams, organizations, communities and society. Appropriate social and professional standards of behavior as applied to the community and workplace environments will be explored.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Enrollment in the Tennessee Leadership Summit (dual enrollment course).

Corequisite:
TN High School Dual Enrollment.

Course Information

Course Title
Mtng ChInges/Diverse WorkpIce

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
2890

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is designed as an upper division, work-world preparation course. As students ready to leave the relative safety of the cocooned worlds of their chosen disciplines, this course provides practical tools and information necessary to succeed in a diverse and changing world of work. By combining interactive learning, current and relevant readings, and key presenters, the course will help completers integrate more smoothly into the next phase of their lives.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Work Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
2910

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Supervised on-campus work experience in agriculture. Credit awarded based on 3 hours of work per week during the semester for each hour of credit. Graded S/U only.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Note:
* No more than a total of 12 credits of Work Experience, Internship, and/or Co-op or any combination of these may apply toward the Bachelor of Science degree in Agriculture.

Course Information

Course Title
Work Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
2920

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Supervised on-campus work experience in agriculture. Credit awarded based on 3 hours of work per week during the semester for each hour of credit. Graded S/U only.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Note:
* No more than a total of 12 credits of Work Experience, Internship, and/or Co-op or any combination of these may apply toward the Bachelor of Science degree in Agriculture.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
2940

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Supervised off-campus work experience program in production agriculture, an agricultural agency of the government or an agribusiness. Credit awarded based on one month full-time employment for each hour of credit or equivalent. Graded S/U only.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Note:
* No more than a total of 12 credits of Work Experience, Internship, and/or Co-op or any combination of these may apply toward the Bachelor of Science degree in Agriculture.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
2950

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Supervised off-campus work experience program in production agriculture, an agricultural agency of the government or an agribusiness. Credit awarded based on one month full-time employment for each hour of credit or equivalent. Graded S/U only.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Note:
* No more than a total of 12 credits of Work Experience, Internship, and/or Co-op or any combination of these may apply toward the Bachelor of Science degree in Agriculture.

Course Information

Course Title
Experiential Agriculture

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
2990

Credit Hours

Credit Hours:
3

Lab Hours

Min:
6

Course Description
Hands-on learning experience in a variety of agricultural production activities. Experiences may include but are not limited to livestock handling, crop production, landscaping, construction of agricultural structures and data collection and analysis. This is a labratory class that will require six contact hours per week.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Leadership and Service

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
3000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course serves as an opportunity for students to have a greater understanding of leadership as it pertains to their lives. We will explore leadership models, roles of leaders and followers, concepts of effective leadership, and ethical issues, with special focus on leadership as service in teams, organizations, communities, and society. The course is also intended to assist students in identifying and defining leadership on a personal level. Students will earn through reading, observing, applying, creating, and evaluating leadership in an organizational context.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Study Abroad Exploration

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
3200

Credit Hours

Credit Hours:
1

Credit Hours:
6

Other Hours

Min:
1

Max:
6

Operator:
TO

Repeatable for Credit:
Yes

Course Description
This study abroad program would provide students an avenue to explore global cultures, build sustainable, service learning projects, engage in global dialogues directly related to their degree programs, and hone their communication and critical thinking skills via a plethora of learning opportunities. This course may be repeated.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Sophomore standing and/or 30 credit hours toward degree program.

Course Information

Course Title
Introduction to Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
3250

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Sophomore Standing. This course will introduce the scientific process and walk through the process of conducting research step-by-step. Upon completing this course, you will be able to find and evaluate helpful resources, read and understand scholarly articles, collect and interpret data, and use your knowledge to answer scientific questions of value to the agricultural industry.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Sophomore standing.

Course Information

Course Title
Prac. Applications in Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
3275

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisites: Sophomore Standing; AGR 3250. This course will provide an opportunity for you to apply your skills in critical thinking and research introduced in Introduction to Research to a real-world research project. During this course you will work collaboratively to conduct research to answer a scientific question. You will collect and analyze data and interpret and evaluate results. Upon completion of this course, you will have gained practical knowledge of the scientific process, and how you can use your skills to advance the agricultural industry.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Sophomore standing; AGR 3250.

Course Information

Course Title
Ldrship Devl/AG Ambassadors

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
3900

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Prerequisite: Consent of instructor. Courses designed to improve leadership skills of AG/HEC Ambassadors.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Ldrship Devl/AG Ambassadors

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
3901

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Prerequisite: Consent of instructor. Courses designed to improve leadership skills of AG/HEC Ambassadors.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Ldrship Devl/AG Ambassadors

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
3902

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Prerequisite: Consent of instructor. Courses designed to improve leadership skills of AG/HEC Ambassadors.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Ldrship Devl/AG Ambassadors

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
3903

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Cross-listing: AGHE 3903Lec. 1. Credit 1.Prerequisite: Consent of instructor. Course designed to improve leadership skills of AG/HEC Ambassadors.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Advanced Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
3940

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Junior or Senior standing and recommendation of advisor; must conform to departmental guidelines. Supervised off-campus advanced placement program in production agriculture, an agricultural agency of the government or an agribusiness. A minimum of six weeks of full-time work is required to fulfill three credit hours.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Junior or Senior standing and recommendation of advisor; must conform to departmental guidelines.

Note:
* No more than a total of 12 credits of Work Experience, Internship, and/or Co-op or any combination of these may apply toward the Bachelor of Science degree in Agriculture.

Course Information

Course Title
Advanced Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
3950

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Junior or Senior standing and recommendation of advisor; must conform to departmental guidelines. Supervised off-campus advanced placement program in production agriculture, an agricultural agency of the government or an agribusiness. A minimum of six weeks of full-time work is required to fulfill three credit hours.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Junior or Senior standing and recommendation of advisor; must conform to departmental guidelines.

Note:
* No more than a total of 12 credits of Work Experience, Internship, and/or Co-op or any combination of these may apply toward the Bachelor of Science degree in Agriculture.

Course Information

Course Title
Advanced Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
3960

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Junior or Senior standing and recommendation of advisor; must conform to departmental guidelines. Supervised off-campus advanced placement program in production agriculture, an agricultural agency of the government or an agribusiness. A minimum of six weeks of full-time work is required to fulfill three credit hours.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Junior or Senior standing and recommendation of advisor; must conform to departmental guidelines.

Note:
* No more than a total of 12 credits of Work Experience, Internship, and/or Co-op or any combination of these may apply toward the Bachelor of Science degree in Agriculture.

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
4500

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Application of leadership and professional skills in Agriculture. Public policy and advocacy guidelines for the professions in Agriculture.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Senior standing.

Course Information

Course Title
Global Food Sys: Sust & Insc

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
4600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Relationships of global food systems to environmental and human health. Dynamics of societal issues, population, food production, biodiversity, biotechnology and economics on food insecurity.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Global Agri Service Lrning

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
4900

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
This course is designed to provide students with a forum for critical reflection on community-driven service, intercultural experiences, power and privilege and critical global engagement. Each section is focused on a specific global agricultural immersion experience.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Senior Problem

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGR

Course Number
4920

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Senior standing. Supervised research in area of interest to the student including data collection, analysis, interpretation of results and preparation of written report.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Senior standing.

Course Information

Course Title
Plant Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
1100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to the fundamentals of plant science as related to the ecological principles of agronomic and horticultural crops.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Plant Science Laboratory

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
1110

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Corequisite: AGRN 1100 unless credit for AGRN 1100 has previously been earned.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
Corequisite: AGRN 1100 unless credit for AGRN 1100 has previously been earned.

Course Information

Course Title
Soil and the Environment

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
2000

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
An introduction to soil physical and biological properties and their relationship to plant growth, land use, and environmental quality.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Intro to Soil Evaluation

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
2240

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
For students interested in becoming members of the intercollegiate soil judging team.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Introduction to Soils

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
2400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course emphasizes soil physical, chemical, and biological properties as they relate to plant growth, the environment, and the soil's place in our daily lives. The course is intended to familiarize students with the importance of soils to humans and the environment through study of soil formation, distribution, physical and chemical properties, fertility, and environmental quality.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Soils Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
2415

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Course Description
This lab emphasizes the practical application of soil physical, chemical, and biological properties as they relate to plant growth, the environment, and the soil's place in our daily lives. The course is intended to familiarize students with the importance of soils to humans and the environment through study of soil formation, distribution, physical and chemical properties, fertility, and environmental quality.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Soils

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
3000

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
An introduction to soil physical and biological properties and their relationship to plant grown, land use, and environmental quality.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
CHEM 1020 or CHEM 1120 or consent of instructor.

Course Information

Course Title
Pesticide Safety/Certification

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
3010

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Course Description
Students receive training in the proper use of pesticides to protect public health and the environment. Students have the opportunity to be tested for the TN Private Pesticide Applicator Certification will be administered for an additional fee. 8 week course.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Crops in Sustainable Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
3020

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
This course emphasizes the fundamental concepts of crop production in the modern sustainable agroecosystem.
In this course, students will develop and apply the skills to manage principal crops (corn, soybean, cotton, cover
crops) in a sustainable ecosystem. This course provides an overview of several agronomic practices.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGRN 2000 or AGRN 2400 or AGRN 3000; consent of the instructor.

Course Information

Course Title
Turfgrass Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
3100

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Principles and practices of managing turf and turfgrasses, including, but not limited
to, identification, selection, establishment, and maintenance of grasses for landscapes, sports fields, parks and roadsides. Students will become familiar with the various components of turfgrass environments, such as soil substrates, nutrient management, irrigation, turf pests/diseases (and their control), and budget management.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGRN 2000 or AGRN 2400 or AGRN 3000; consent of instructor.

Course Information

Course Title
Soils

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
3210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: CHEM 1020 or CHEM 1120 or CHEM 3710 or consent of instructor. Corerequisite: AGRN3220. An introduction to soil physical, chemical, and biological properties and their relationship to plant growth, land use, and environmental quality.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
CHEM 1020, CHEM 1120 or CHEM 3710 or consent of instructor.

Corequisite:
AGRN 3220.

Course Information

Course Title
Soils Laboratory

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
3220

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Co-requisite: AGRN 3210 or consent of instructor. Experiential learning activities in determination ofsoil physical, chemical, and biological properties and application of basic soil science principles both in a field setting as well as the laboratory.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
AGRN 3210 or consent of instructor.

Course Information

Course Title
Environmental Soil Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
3230

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: AGRN 3210 and AGRN 3220. Soil and water conservation as related to land use, land use planning, and impact of agriculture on the environment.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGRN 3000.

Course Information

Course Title
Organic Farming

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
3300

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
An examination of organic crop production methods including improving the structure of soil and fertility, pest management, irrigation, season extension, vegetable and fruit crop production, harvesting, post harvest handling and marketing techniques.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Soil and Water Conservation

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
3350

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course explores the principles and practices of soil and water conservation, focusing on the sustainable
management of these critical natural resources. Students will examine the physical, chemical, and biological
properties of soil, the hydrological cycle, and strategies for mitigating soil erosion, water scarcity, and pollution.
Emphasis will be placed on integrating conservation techniques to address environmental and agricultural
challenges.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Prerequisites: AGRN 2000 or AGRN 2400 or AGRN 3000; consent of instructor.

Course Information

Course Title
Crop Pests and Diseases

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
3400

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: AGRN 1100. Introduction to common insect pests and diseases of agricultural crops.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGRN 1100.

Course Information

Course Title
Unmanned Aircraft Operations

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
3600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course will teach the fundamentals of unmanned aircraft systems (UAS) concepts and prepare the student to pass the FAA Part 107 certification exam. Students will develop skills necessary for safe UAS operation to improve efficiency within various ag sectors.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Weed Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4100

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: AGRN 1100 and AGRN 1110 or consent of instructor. Plant and seed identification, and growth habits and dissemination of weeds. Biological, cultural, and chemical methods of control in the integrated pest management (IPM) concept.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGRN 1100 and AGRN 1110 or consent of instructor.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Crop Improvement

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4120

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: AGRN 1100 and AGRN 1110 or consent of instructor. Objectives, genetic principles, and methods of crop improvement by conventional and genetic engineering methods.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGRN 1100 and AGRN 1110 or consent of instructor.

Course Information

Course Title
Forage Crops Prod & Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4130

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisite: AGRN 1100 , AGRN 1110 and AGRN 2000 or 2400 or 3000. Botany and classification, soil and climatic requirements, species adaptation, establishment and management of grasses and legumes for silage, hay, and temporary, permanent, and rotational pastures for ruminants, swine, and horses. Forage crop species, morphology, physiology, adaptation, and identification. Soil, climatic, and topographical environmental affecting forage production. Primary forages used for animal production and erosion control in the Southeast. Emphasis on establishment and management of grasses and legumes for silage, hay, and temporary, permanent, and rotational pastures for ruminants and horses. Extensive discussion of forage quality and animal production interactions at the soil-plant-animal interface. Forage related diseases in livestock.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGRN 1100, AGRN 1110 and AGRN 2000 or AGRN 2400 or AGRN 3000.

Course Information

Course Title
Soil Fertility & Fertilizers

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4210

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisite: AGRN 2000 or AGRN 2400 or AGRN 3000; consent of the instructor
Properties of soils in relation to plant nutrition, and fertilizer materials and their relationship to soil fertility.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Prerequisites: AGRN 2000 or AGRN 2400 or AGRN 3000; consent of instructor.

Course Information

Course Title
Environmental Soil Chem

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: AGRN 2000 or AGRN 2400 or AGRN 3000; consent of instructor
This course examines the chemical processes occurring in soils and their impact on environmental quality and ecosystem health. Topics will include the chemistry of soil minerals and organic matter, the role of microbes in soil processes, soil pH and nutrient availability, and the fate and transport of contaminants in soil. The course will also cover current issues in environmental pollution, including the impacts of pesticides and heavy metals on soil health and the remediation of contaminated sites. Students will engage in hands-on experiments and case studies to understand the interplay between soil chemistry and environmental sustainability.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Prerequisites: AGRN 2000 or AGRN 2400 or AGRN 3000; consent of instructor.

Course Information

Course Title
Soil Classification

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4230

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisites: AGRN 2000 or AGRN 2400 or AGRN 3000; consent of instructor
This course provides an in-depth study of soil classification systems, including Soil Taxonomy and the World Reference Base for Soil Resources. The course emphasizes hands-on activities and assessments designed to prepare students for the soil science licensure exam. Students will explore the principles of soil formation, horizonation, diagnostic features, and classification criteria, with a focus on practical application and field-based skills.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Prerequisites: AGRN 2000 or AGRN 2400 or AGRN 3000; consent of instructor.

Course Information

Course Title
Advanced Soil Evaluation

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4240

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisite: AGRN 2240. For members of the intercollegiate soil judging team.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
AGRN 2240.

Course Information

Course Title
Agronomy Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4940

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agronomy under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Soil Science Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4945

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approve area of soil science under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agronomy Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4950

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agronomy under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Soil Science Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4955

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approve area of soil science under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agronomy Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4960

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agronomy under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Soil Science Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4965

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approve area of soil science under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agronomy Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4970

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agronomy under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Soil Science Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4975

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approve area of soil science under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agronomy Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4980

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of agronomy under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Soil Science Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
AGRN

Course Number
4985

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approve area of soil science under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Intro. to Poultry Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANPS

Course Number
1300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course provides an overview of the poultry industry with an emphasis in careers in the biological sciences.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Poultry Management Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANPS

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ANPS 1300. This course will provide student awareness of various management systems within the poultry industry.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ANPS 1300.

Course Information

Course Title
Applied Poultry Nutrition

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANPS

Course Number
3200

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ANS 3015: Animal Nutrition and ANS 3330: Anatomy and Physiology of Livestock. This course will provide insight regarding applicable poultry nutrition practices. This course is designed to allow students to better understand the complexities of poultry nutrition. Students will conduct a small experiment, investigating the effects of a nontraditional feed ingredient.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ANS 3330 and ANS 3015.

Course Information

Course Title
Exper. Learn/Poultry Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANPS

Course Number
3990

Credit Hours

Credit Hours:
1

Credit Hours:
6

Lab Hours

Min:
2

Max:
12

Repeatable for Credit:
Yes

Course Description
This course will allow students to actively participate in current research at Tennessee Tech University's Poultry Science Research Center.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Feed Manufacturing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANPS

Course Number
4020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ANS 3015: Animal Nutrition. This course will provide insight regarding applicable feed manufacturing and diet formulation practices.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ANS 3015.

Course Information

Course Title
Introductory Animal Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
1200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Fall, Spring. Lec. 3. Credit 3.Introduction to market classes, types, grades, and breeds of livestock and poultry; animal agricultural products; basic animal biological processes as related to livestock production and management; and overview of careers related to animal agriculture.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Intro Animal Science Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
1210

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Lab. 3. Credit 1.Corequisite: ANS 1200 unless credit for ANS 1200 has previously been earned. Provides the opportunity for application of the basic principles of animal science with an emphasis on different types of livestock enterprises; animal types, breeds, form, and function; and common practices employed in management of major livestock enterprises.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Livestock Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
2020

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ANS 1200 and ANS 1210 . Management techniques, practices and principles involved in meat animal production.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ANS 1200 and ANS 1210.

Course Information

Course Title
Livestock Evaluation

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
2110

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: ANS 1200 and ANS 1210 . Techniques for determining live animal composition. Effects of weight, muscling, and condition on carcass-based live animal value. Carcass quality and yield evaluation methods. Determining merit in breeding stock and introductory livestock judging.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ANS 1200 and ANS 1210.

Course Information

Course Title
Animals and Society

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
2250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: None. Impacts of animals, and particularly companion animals, on human society, development, health and behavior.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Animal Nutrition

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
3015

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ANS 1200, ANS 1210 and CHEM 1020 or CHEM 1120. Examining the nutritional roles of water, carbohydrates, proteins, lipids, minerals, vitamins, and other dietary components through comparing structure, function, and other aspects of gastrointestinal tracts on digestion, absorption, and metabolism of nutrients among livestock species.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ANS 1200, ANS 1210, and CHEM 1010 or CHEM 1020.

Course Information

Course Title
Feeds and Feeding

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
3020

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Feed classification, nutrient requirements, ration formulation for various classes of livestock and dairy and conducting feeding trials.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Livestock Judging

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
3110

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: ANS 2110. Designed to train the student to become a competent judge of market and breeding classes of beef cattle, sheep, and swine.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ANS 2110.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Animal Breeding

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
3130

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Genetics applied to the selection and improvement of livestock, heritability estimates, and selection indexes as applied to animal breeding.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Reproduction in Farm Animals

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
3140

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Reproduction in farm animals; anatomy, physiology, and endocrine control on reproduction; and applied reproduction methods in livestock and dairy animals.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Com Dis & Par-Dom Animals

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
3150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prevention, diagnosis, and treatment of common diseases and parasites affecting farm animals.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Meat, Dairy, Poultry Prod

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
3310

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Food science applied principles regarding meat, dairy, and poultry products. Emphasis on food safety, quality, and marketing issues.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Anat/Phys of Lvstock Animals

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
3330

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Overview of anatomical structures and physiological processes in biological systems. Specific emphasis will be given to livestock species including bovine, porcine, ovine and caprine species. Introductory cellular biology, issue types and specific organ systems stressing cases where livestock species may differ from other species.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Beef Production & Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
4110

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ANS 3010 or 3020 or consent of instructor. Application of modern technology in breeding, feeding, financing, management, and marketing of beef cattle.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ANS 3015 or ANS 3020 or consent of instructor.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Swine Production & Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
4120

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ANS 3010 or 3020 or consent of instructor. Application of modern technology in breeding, feeding, financing, management, and marketing of swine.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ANS 3015 or ANS 3020 or consent of instructor.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Sheep Production & Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
4130

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ANS 3010 or 3020 or consent of instructor. Breeds, feeding, management, marketing of sheep for lamb and wool production, and parasite and disease control.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ANS 3015 or ANS 3020 or consent of instructor.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Equine Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
4150

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Overview of the equine industry, breeds, selection, handling and grooming, foot care, diseases, nutrition, reproduction, facilities, and management techniques.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Poultry Production/Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
4200

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: ANS 1200 and ANS 1210. This course will allow the students to gain hands-on experience in poultry meat and egg production. The additional lab component will give the students enough time to visit nearby poultry farmers to learn various legs of commercial poultry industry.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ANS 1200 and ANS 1210.

Course Information

Course Title
Companion Animal Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
4250

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: Junior standing. Care, management and uses of companion animals, particularly involving human health and well-being, and behavior modification in elementary school students.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Junior standing.

Course Information

Course Title
Dairy Herd Mgmt & Supervision

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
4310

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Selection, feeding, management, supervision methods, DHIA record keeping, disease control, equipment selection, and quality control methods in dairy production.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Animal Science Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
4940

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of animal science under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Animal Science Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
4950

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of animal science under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Animal Science Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
4960

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of animal science under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Animal Science Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
4970

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of animal science under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Animal Science Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANS

Course Number
4980

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Special study in an approved area of animal science under the supervision of a member of the School of Agriculture faculty.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Agritourism Dvlp/Promotion

Academic Level (Course Level)
Undergraduate

Course Subject Code
ATOU

Course Number
2100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Agritourism has a direct economic impact on farms and surrounding communities. This course will delve into the tourism industry, strategies to develop and maintain farms and their heritage as tourism products, as well as explore strategies to document and promote the economic and cultural significance of agritourism. Open to both majors and non-majors.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Ag & Heritage-Based Tourism

Academic Level (Course Level)
Undergraduate

Course Subject Code
ATOU

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
In order to understand the connection between agricultural traditions and heritage based tourism, one must understand the importance of resource strategies critical to the preservation and conservation of unique environmental and historical settings. This course will review the historical image of agriculturists and their connection to the land and how this connection ties to heritage based tourism. The course will delve into a variety of topics and methods to increase the importance of this new role awareness.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Direct Mkt for AGR/HEC

Academic Level (Course Level)
Undergraduate

Course Subject Code
ATOU

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Direct marketing shortens the marketing route and allows businesses to communicate with and deliver products directly to the consumer. This course will cover key elements of direct marketing in an agrulture and human ecology context, including retailing, merchandizing, social media marketing and serbices makreting. Open to both majors and non-majors.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Sustnble Trsm/Econ & Comm Dvlp

Academic Level (Course Level)
Undergraduate

Course Subject Code
ATOU

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ATOU2100 or consent of instructor. Sustainable tourism is a strategy for economic and community development in rural areas around the world. This course will trace the inception of these concepts from the United Nationals World Tourism Organization and follow their application in various locations, both internationally and within the US. Focus will be given to various types of niche tourism to achieve economic and community development goals.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
ATOU 2100 or consent of instructor.

Basic Business Department

Programs

BBUS-ND - Basic Business

Program Overview

Program Long Title
Basic Business

College/School
Business

Department(s)
Basic Business

Requirements

Simple Requirements

College of Business Lower Division Requirements

Type
Completion Requirement

Basic Business Requirements

Complete ALL of the following Courses:

- DS2810 - DS 2810: Computer Applications in Organizations
- UBUS1020 - Success Skills-Bus Studies
- MATH1710 - Pre-Calculus Algebra
- MATH1530 - Introductory Statistics
- ELECTIVE - Elective Credit
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

Electives are to be selected in consultation with academic advisor. Elective courses may be business OR non-business courses. (Note - HON 1010 counts as an elective)

English 1010 and 1020 must be passed with a grade of 'C' or higher.

Students majoring in Economics will also take MATH 1830 Applied Calculus in addition to MATH 1710 and MATH 1530.

Basic Business Requirements

Complete ALL of the following Course Sets:

- Humanities/Cultural Expression (FFHC)
- Scientific Reasoning (FFSR)

Natural Science - Select 2 courses from the following: ASTR 1010, ASTR 1020, BIOL 1010, BIOL 1020, BIOL 1113, BIOL 1123, BIOL 2310, BIOL 2010, BIOL 2020, CHEM 1010, CHEM 1020, CHEM 1110, CHEM 1120, GEOG 2100, GEOL 1040, GEOL 1045, PHYS 2010, PHYS 2020, PHYS 2110, PHYS 2120

(NOTE: BIOL 1080, CHEM 1310, GEOL 1070 and PHYS 1310 are also university-approved science courses. However, they are better suited to other majors since they are 3-credit hour classes instead of 4-credits).

Humanities/Fine Arts - Select 3 courses from the following, at least 1 of which must be a literature course selected from those marked with an asterisk: ART 1035, ART 2000, ART 2020, ENGL 2130*, ENGL 2235*, ENGL 2330*, FLST 2520, FREN 2510, GERM 2520, HIST 2210, HIST 2220, HIST 2310, HIST 2320, HIST 1310, MUS 1030, PHIL 1030, RELS 2010, SPAN 2510, SPAN 2550, THEA 1030.

BUS-MIN - Business Minor

Program Overview

Program Long Title
Business Minor

College/School
Business

Department(s)
Basic Business

Requirements

Simple Requirements

Business Minor

Type
Completion Requirement

Business (BUS) Minor - 21 hours

Complete ALL of the following Courses:

- ACCT3720 - Survey of Accounting
- BMGT3510 - Mgmt/Organizational Behavior
- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- MKT3400 - Principles of Marketing
- FIN3210 - Principles/Managerial Fin
- LAW2810 - Business Legal Env & Ethics

Courses

Course Information

Course Title
Success Skills-Bus Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
UBUS

Course Number
1020

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description

Connects students to the university and College of Business environments through meaningful academic and non-academic, out-of-classroom activities. Emphasizes critical thinking in the formation of academic and social goals, group participation, and in self-management and study skills.

College/School

Business

Biology Department

Professor Boles Chairperson; Professors J. Carrick, Lisic, Zhang; Associate Professors W. Carroll, Crouse, Gichuhi, Rezsnyak, Swartling, Zhan; Assistant Professors Callender, Cojocaru, Dan, Gurusinghe, Murphy; Senior Instructors A.M. Carrick, Coonce, Instructor Rust; Senior Lecturers A. Carroll, Majors; Lecturers Cashman, Moldenhauer.

The Department of Biology offers two majors, both leading to a Bachelor of Science degree: Biology and Wildlife and Fisheries Science (WFS). Within the Biology major, there are seven concentrations: Botany; Cellular & Molecular Biology; Environmental Biology; Health Sciences Biology; Marine Biology; Microbiology; and Zoology. Within the WFS major there are three concentrations: Conservation Biology, Fisheries Science, and Wildlife Science. Departmental offerings vary from strongly organismally-based concentrations to strongly lab-based concentrations, and prepare students for a wide variety of careers in biologically-focused areas, both in the field and in the lab. Students in both majors are also well-prepared to continue their education at the graduate level.

Students majoring in Biology and interested in one of the health-related professions (medicine, dentistry, pharmacy, physical therapy, optometry, occupational health, physician's assistant) typically choose either the Health Sciences or Cellular & Molecular Biology concentration, and may declare a Career Tracks in their chosen professional field.

Tennessee Tech University is affiliated with the Gulf Coast Research Laboratory at Ocean Springs, Mississippi. This affiliation permits students to enroll in marine biology courses that would otherwise be unavailable this far inland. The Biology Department is unique in Tennessee for its Cooperative Fisheries Research Unit supported jointly by the U.S. Geological Survey, the Tennessee Wildlife Resources Agency, and Tennessee Tech University. A primary function of the unit is to strengthen the graduate fisheries program; however, undergraduates interested in fisheries biology often find opportunities for valuable experience through association with Unit activities.

Programs

BIOL-BIBI - Biology, Cellular and Molecular Biology Concentration, B.S.

Program Overview

Program Long Title
Biology, Cellular and Molecular Biology Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Biology

Requirements

Simple Requirements

Biology, Cellular and Molecular Biology Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Biology, Cellular & Molecular Biology Concentration Core

Complete ALL of the following Courses:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL2310 - General Botany
- BIOL3120 - General Ecology
  OR BIOL3130 - General Ecology
- BIOL3140 - Cellular Biology
- BIOL3200 - General Microbiology
  OR BIOL3230 - Health Science Microbiology
- BIOL3810 - General Genetics
- BIOL3920 - Biological Comm Skills
- BIOL4040 - Immunology
  OR BIOL4060 - Hormones & Chem Comm
  OR BIOL4850 - Applied Microbiology
  OR BIOL4190 - Molecular Signal Integration
  OR BIOL4050 - Virology
- BIOL4150 - Molecular Genetics
- BIOL4160 - Genetic Engineering Lab
- BIOL4320 - Plant Physiology
  OR BIOL3530 - Animal Physiology
  OR BIOL2010 - Human Anatomy & Physiology I

Additional Program Requirements

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM3010 - Organic Chemistry I
- CHEM3020 - Organic Chemistry II
- CHEM4610 - General Biochemistry I
- CHEM4620 - General Biochemistry II
- CHEM4650 - General Biochemistry Lab
- PHYS2010 - Algebra-based Physics I
- PHYS2020 - Algebra-based Physics II
- MATH1710 - Pre-Calculus Algebra
- MATH1530 - Introductory Statistics
  OR MATH1830 - Applied Calculus
- MATH3070 - Statistical Methods I
  OR BIOL4220 - Biostatistics

Elective Credits

Electives (7-8 hours)
Additional free elective are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Biology, Cellular & Molecular Biology Concentration, B.S.

Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Elective (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	18

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- BIOL2310 - General Botany

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH1830 - Applied Calculus

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	13

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- BIOL4220 - Biostatistics

Actual Credits 3

Requirement Select
- PC2500 - Communicating in the Profess.
  OR
- COMM2025 - Fundamentals of Communication

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- BIOL3120 - General Ecology
  OR
- BIOL3130 - General Ecology

Actual Credits 3

Requirement Select
- BIOL3140 - Cellular Biology

Actual Credits 4

Requirement Select
- BIOL3200 - General Microbiology
  OR
- BIOL3230 - Health Science Microbiology

Actual Credits 4

Requirement Select
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select
- BIOL3920 - Biological Comm Skills

Actual Credits 3

Requirement Select
- CHEM3020 - Organic Chemistry II

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I
  OR
- BIOL4320 - Plant Physiology
  OR
- BIOL3530 - Animal Physiology

Actual Credits 4

Requirement Select
- BIOL4040 - Immunology
  OR
- BIOL4060 - Hormones & Chem Comm
  OR
- BIOL4850 - Applied Microbiology
  OR
- BIOL4190 - Molecular Signal Integration
  OR
- BIOL4050 - Virology

Actual Credits 3

Requirement Select
- CHEM4610 - General Biochemistry I

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- BIOL4150 - Molecular Genetics

Actual Credits 3

Requirement Select
- BIOL4160 - Genetic Engineering Lab

Actual Credits 2

Requirement Select
- CHEM4620 - General Biochemistry II

Actual Credits 3

Requirement Select
- CHEM4650 - General Biochemistry Lab

Actual Credits 2

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

BIOL-BIEB - Biology, Environmental Biology Concentration, B.S.

Program Overview

Program Long Title
Biology, Environmental Biology Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Biology

Requirements

Simple Requirements

Biology, Environmental Biology Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
  OR NURS2600 - Communication in Health Care

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least undefined credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Biology, Environmental Biology Concentration Core

Complete ALL of the following Courses:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL2310 - General Botany
- BIOL3200 - General Microbiology
- BIOL3130 - General Ecology
- BIOL3140 - Cellular Biology
- BIOL3810 - General Genetics
- BIOL3920 - Biological Comm Skills
- BIOL4610 - Invertebrate Zoology
  OR BIOL4840 - Limnology
- BIOL3530 - Animal Physiology
  OR BIOL4320 - Plant Physiology
- BIOL4630 - Ornithology
  OR BIOL4810 - Ichthyology
  OR BIOL4920 - Mammalogy
  OR BIOL4930 - Herpetology
- BIOL3250 - Field Botany

Additional Requirements:

Environmental Biology Concentration Directed Electives Select three of the following courses (9-12 hours): Choose 3 courses from the following options: AGRN 2400 and 2415; BIOL 4330; GEOG 3200; GEOG 4410; GEOL 4150; GEOL 4711; WFS 4730; WFS 4870 OR GEOG 4510 (only one of the two will count toward the directed elective requirements).

Note: Only one of these two classes (GEOG4510 or WFS4870) will count toward this requirement.

Additional Program Requirements

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM3005 - Elementary Organic Chemistry
- ESS3710 - Chemistry and the Environment
- GEOL1040 - Physical Geology
- GEOL1045 - Earth Environ Resrces Soc
- MATH1710 - Pre-Calculus Algebra
- MATH1530 - Introductory Statistics
- MATH3070 - Statistical Methods I
  OR BIOL4220 - Biostatistics

Elective Credits

Electives (2-5 hours based on course selection)
Additional free electives are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Biology, Environmental Biology Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- BIOL2310 - General Botany

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- GEOL1045 - Earth Environ Resrces Soc

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- BIOL3130 - General Ecology

Actual Credits 4

Requirement Select
- BIOL3140 - Cellular Biology

Actual Credits 4

Requirement Select
- BIOL3200 - General Microbiology

Actual Credits 4

Requirement Select
- CHEM3005 - Elementary Organic Chemistry

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select
- BIOL3530 - Animal Physiology
  OR
- BIOL4320 - Plant Physiology

Actual Credits 3

Requirement Select
- BIOL4220 - Biostatistics
  OR
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- ESS3710 - Chemistry and the Environment

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- BIOL3920 - Biological Comm Skills

Actual Credits 3

Requirement Select
- BIOL4610 - Invertebrate Zoology
  OR
- BIOL4840 - Limnology

Actual Credits 3

Requirement Select
- BIOL/Environmental Biology Directed Electives

Actual Credits 8

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- BIOL3250 - Field Botany

Actual Credits 4

Requirement Select
- BIOL4630 - Ornithology
  OR
- BIOL4810 - Ichthyology
  OR
- BIOL4920 - Mammalogy
  OR
- BIOL4930 - Herpetology

Actual Credits 3

Requirement Select
- Electives (2 cr.)
  (Generic)

Actual Credits 2

Requirement Select
- BIOL/Environmental Biology Directed Electives

Actual Credits 4

Requirement Select
- Environmental Biology Directed Electives: Choose 3 courses from the following options: AGRN 2400 and 2415; BIOL 4330; GEOG 3200; GEOG 4410; GEOL 4150; GEOL 4711; WFS 4730; WFS 4870 OR GEOG 4510 (only one of the two will count toward the directed elective requirements).
  (Generic)

Actual Credits -

BIOL-BIHS - Biology, Health Sciences Concentration, B.S.

Program Overview

Program Long Title
Biology, Health Sciences Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Biology

Requirements

Simple Requirements

Biology, Health Sciences Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Biology, Health Sciences Concentration Core

Complete ALL of the following Courses:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL2010 - Human Anatomy & Physiology I
- BIOL2020 - Human Anatomy & Physiology II
- BIOL3120 - General Ecology
  OR BIOL3130 - General Ecology
- BIOL3140 - Cellular Biology
- BIOL3230 - Health Science Microbiology
- BIOL3810 - General Genetics
- BIOL3920 - Biological Comm Skills
- BIOL4040 - Immunology
- BIOL3040 - Comparative Vertebrate Anatomy
  OR BIOL4000 - General Parasitology
  OR BIOL4060 - Hormones & Chem Comm
  OR BIOL4070 - Vertebrate Development
  OR BIOL4140 - Pathogenic Bacteriology
  OR BIOL4150 - Molecular Genetics
  OR BIOL4750 - Medical Microbiology
  OR BIOL4860 - Disease Prevention
  OR BIOL4880 - Bioethics
  OR BIOL4890 - Histology
  OR CHEM4500 - Nutritional Biochemistry
  OR CHEM4610 - General Biochemistry I
  OR CHEM3020 - Organic Chemistry II
  OR BIOL3010 - Principles of Evolution
  OR BIOL4050 - Virology

Health Sciences Concentration Directed Electives Select four of the following courses (12-16 hours): Choose 4 courses from the following options: BIOL 3010; BIOL 3040; BIOL 4000; BIOL 4060; BIOL 4070; BIOL 4140; BIOL 4150; BIOL 4750; BIOL 4860; BIOL 4880; BIOL 4890; CHEM 3020; CHEM 4500 OR CHEM 4610

Note: **only one of CHEM 4500 or CHEM 4610 will count toward the directed elective requirements.**

Additional Program Requirements

Complete ALL of the following Courses:
- PHYS2010 - Algebra-based Physics I
- PHYS2020 - Algebra-based Physics II
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM3010 - Organic Chemistry I
- PSY1030 - Introduction to Psychology
- MATH1530 - Introductory Statistics
  OR MATH1710 - Pre-Calculus Algebra
  OR MATH1830 - Applied Calculus
  OR MATH1910 - Calculus I
- MATH1920 - Calculus II
  OR MATH3070 - Statistical Methods I

OR BIOL4220 - Biostatistics

Elective Credits

Electives (9-11 hours)
Additional free electives are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Biology, Health Sciences Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1910 - Calculus I
  OR
- MATH1530 - Introductory Statistics
  OR
- MATH1830 - Applied Calculus

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1910 - Calculus I

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- BIOL2020 - Human Anatomy & Physiology II

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Requirement Select
- BIOL/Health Science Biology Directed Electives

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- BIOL3230 - Health Science Microbiology

Actual Credits 4

Requirement Select
- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- BIOL3140 - Cellular Biology

Actual Credits 4

Requirement Select
- BIOL4220 - Biostatistics
  OR
- MATH3070 - Statistical Methods I
  OR
- MATH1920 - Calculus II

Actual Credits 3

Requirement Select
- BIOL/Health Science Biology Directed Electives

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- BIOL3920 - Biological Comm Skills

Actual Credits 3

Requirement Select
- BIOL4040 - Immunology

Actual Credits 3

Requirement Select
- BIOL/Health Science Biology Directed Electives

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select
- BIOL3120 - General Ecology
  OR
- BIOL3130 - General Ecology

Actual Credits 3 - 4

Requirement Select
- BIOL/Health Science Biology Directed Electives

Actual Credits 3 - 4

Requirement Select
- Electives (6-8 cr)
  (Generic)

Actual Credits 8 - 6

Requirement Select
- Health Sciences Directed Electives: Choose 4 courses from the following options: BIOL 3010; BIOL 3040; BIOL 4000; BIOL 4060; BIOL 4070; BIOL 4140; BIOL 4150; BIOL 4750; BIOL 4860; BIOL 4880; BIOL 4890; CHEM 3020; CHEM 4500 OR CHEM 4610 (only one of the two will count toward the directed elective requirements).
  (Generic)

Actual Credits -

Requirement Select
- 1 Three math/statistics courses are required: select two courses from MATH 1530, 1710, 1830, or 1910. Select one course from MATH 1920, 3070, or BIOL 4220. ** MATH 1830 and MATH 1910 can not both be taken for credit.
  (Generic)

Actual Credits -

BIOL-BOT - Biology, Botany Concentration, B.S.

Program Overview

Program Long Title
Biology, Botany Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Biology

Requirements

Simple Requirements

Biology, Botany Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
  OR NURS2600 - Communication in Health Care

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Complete six hours from the approved Humanities and Cultural Expression list.

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Complete Six hours from the approved Social/Behavioral Sciences list.

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Complete eight hours from the approved Natural Sciences list.

Flight Foundations Core - Financial Literacy or Digital Literacy (3 cr)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Biology, Botany Concentration

Type
Completion Requirement

Biology, Botany Concentration Core

Complete ALL of the following Courses:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL2310 - General Botany
- BIOL3010 - Principles of Evolution
- BIOL3130 - General Ecology
- BIOL3140 - Cellular Biology
- BIOL3250 - Field Botany
- BIOL3810 - General Genetics
- BIOL3920 - Biological Comm Skills
- BIOL4310 - Plant Anatomy
- BIOL4330 - Plant Ecology
- BIOL4981 - Senior Thesis I in Botany
- BIOL4320 - Plant Physiology
- BIOL4982 - Senior Thesis II in Botany

Botany Directed Electives:

Choose 4 courses from the following options: AGRN 2400; BIOL 3200 OR BIOL 3230 (only one of the two will count toward the directed elective requirements); BIOL 3330; BIOL 4150; BIOL 4160; BIOL 4190; BIOL 4200; BIOL 4210; BIOL 4340; BIOL 4350; BIOL 4360; GEOG 4510; GEOG 4511; GEOL 3550; WFS 4730.

Additional Program Requirements

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I
- MATH1710 - Pre-Calculus Algebra
- CHEM1120 - General Chemistry II
- MATH1530 - Introductory Statistics
  OR MATH1830 - Applied Calculus
- MATH3070 - Statistical Methods I
  OR BIOL4220 - Biostatistics
- GEOL1040 - Physical Geology
- AGHT3450 - Dendrology
- CHEM3005 - Elementary Organic Chemistry

Elective Credits

Additional free electives are needed to complete the required 120 earned hours.

Electives (4-9 hours)

Additional Comments:
Note:

1 Three math/statistics courses are required, one each from the following pairs of courses: either MATH 1710, either MATH 1530 or MATH 1830, and either MATH 3070 or BIOL 4220 (5220)/WFS 4220 (5220). Botany Concentration Directed Electives

Degree Map

Degree Map Name
Degree Plan - Biology, Botany Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Elective (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH1830 - Applied Calculus

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	13

Requirement Select
- BIOL2310 - General Botany

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- BIOL4220 - Biostatistics

Actual Credits 3

Requirement Select
- BIOL3010 - Principles of Evolution

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- BIOL3130 - General Ecology

Actual Credits 4

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- AGHT3450 - Dendrology

Actual Credits 3

Requirement Select
- CHEM3005 - Elementary Organic Chemistry

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- BIOL3140 - Cellular Biology

Actual Credits 4

Requirement Select
- BIOL3250 - Field Botany

Actual Credits 4

Requirement Select
- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- BIOL3920 - Biological Comm Skills

Actual Credits 3

Requirement Select
- BIOL4310 - Plant Anatomy

Actual Credits 3

Requirement Select
- BIOL4330 - Plant Ecology

Actual Credits 3

Requirement Select
- BIOL4981 - Senior Thesis I in Botany

Actual Credits 1

Requirement Select
- BIOL/Botany Directed Electives

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	Second Semester	16

Requirement Select
- BIOL4320 - Plant Physiology

Actual Credits 3

Requirement Select
- BIOL/Botany Directed Electives

Actual Credits 8

Requirement Select
- Electives (2-7 cr. depending on course selection)
  (Generic)

Actual Credits 4

Requirement Select
- BIOL4982 - Senior Thesis II in Botany

Actual Credits 1

Requirement Select
- Three math/statistics courses are required, one each from the following pairs of courses: MATH 1710 , either MATH 1530 or MATH 1830 , and either MATH 3070 or BIOL 4220 (5220) /WFS 4220 (5220) .
  (Generic)

Actual Credits -

Requirement Select
- Botany Directed Electives: Choose 4 courses from the following options: AGRN 2400; BIOL 3200 OR BIOL 3230 (only one of the two will count toward the directed elective requirements); BIOL 3330; BIOL 4150; BIOL 4160; BIOL 4190; BIOL 4200; BIOL 4210; BIOL 4340; BIOL 4350; BIOL 4360; GEOG 4510; GEOG 4511; GEOL 3550; WFS 4730.
  (Generic)

Actual Credits -

BIOL-MAR - Biology, Marine Biology Concentration, B.S.

Program Overview

Program Long Title
Biology, Marine Biology Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Biology

Requirements

Simple Requirements

Biology, Marine Biology Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Biology, Marine Biology Concentration Core

Complete ALL of the following Courses:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL2310 - General Botany
- BIOL3130 - General Ecology
- BIOL3140 - Cellular Biology
- BIOL3200 - General Microbiology
  OR BIOL3230 - Health Science Microbiology
- BIOL3810 - General Genetics
- BIOL3920 - Biological Comm Skills
- BIOL4650 - Marine Biology
- BIOL4610 - Invertebrate Zoology
  OR BIOL4780 - Phycology
  OR BIOL4810 - Ichthyology
  OR BIOL4840 - Limnology

Marine Biology Concentration Directed Electives: Choose one of the following courses (3 hours): BIOL 4610 (5610) - Invertebrate Zoology Credit: 3. BIOL 4780 (5780) - Phycology Credit: 3. BIOL 4810 (5810) - Ichthyology Credit: 3. BIOL 4840 (5840) - Limnology Credit: 3

Gulf Coast Research Laboratory Electives (10-12 credits)

GCRL Electives (10-12 credits)
GCRL Electives: Any courses from the GCRL offerings totaling 10-12 credit hours (requires one summer at the GCRL; coursework from other marine stations may be substituted with the approval of the advisor).

Additional Program Requirements

Complete ALL of the following Courses:
- MATH1710 - Pre-Calculus Algebra
- MATH3070 - Statistical Methods I
  OR BIOL4220 - Biostatistics
- MATH1530 - Introductory Statistics
  OR MATH1830 - Applied Calculus
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM3005 - Elementary Organic Chemistry
- GEOL1040 - Physical Geology

Elective Credits

Electives (15-17 hours)
Additional free electives are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Biology, Marine Biology Concentration, B.S.

Total Degree Map Credits
117 - 120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	12 - 15

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Elective (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 0 - 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH1830 - Applied Calculus

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- BIOL2310 - General Botany

Actual Credits 4

Requirement Select
- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Electives (3 cr)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- BIOL3130 - General Ecology

Actual Credits 4

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	14

Requirement Select

- BIOL3200 - General Microbiology
  OR
- BIOL3230 - Health Science Microbiology

Actual Credits 4

Requirement Select

- CHEM3005 - Elementary Organic Chemistry

Actual Credits 4

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- Electives (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select

- BIOL3140 - Cellular Biology

Actual Credits 4

Requirement Select

- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select

- BIOL3920 - Biological Comm Skills

Actual Credits 3

Requirement Select

- BIOL4650 - Marine Biology

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	First Semester	10 - 12

Requirement Select

- Any courses from the GCRL offerings totaling 10-12 credit hours (requires one summer at the GCRL; coursework from other marine stations may be substituted with the approval of the advisor).
  (Generic)

Actual Credits 10 - 12

Year	Semester	Actual Credits
Senior Year	Second Semester	16 - 14

Requirement Select

- Electives (8-10 cr)
  (Generic)

Actual Credits 9 - 8

Requirement Select

- BIOL4220 - Biostatistics
  OR
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select

- BIOL4610 - Invertebrate Zoology
  OR
- BIOL4780 - Phycology
  OR
- BIOL4810 - Ichthyology
  OR
- BIOL4840 - Limnology

Actual Credits 4 - 3

Requirement Select

- Marine Biology Concentration Directed Electives: Choose one of the following courses (3 hours): BIOL 4610 (5610) - Invertebrate Zoology Credit: 3. BIOL 4780 (5780) - Phycology Credit: 3. BIOL 4810 (5810) - Ichthyology Credit: 3. BIOL 4840 (5840) - Limnology Credit: 3
  (Generic)

Actual Credits -

BIOL-MICB - Biology, Microbiology Concentration, B.S.

Program Overview

Program Long Title
Biology, Microbiology Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Biology

Requirements

Simple Requirements

Biology, Microbiology Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
  OR NURS2600 - Communication in Health Care

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations(6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy(3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Biology, Microbiology Concentration Core

Complete ALL of the following Courses:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL2310 - General Botany
- BIOL3120 - General Ecology
  OR BIOL3130 - General Ecology
- BIOL3140 - Cellular Biology
- BIOL3200 - General Microbiology
  OR BIOL3230 - Health Science Microbiology
- BIOL3810 - General Genetics
- BIOL3920 - Biological Comm Skills
- BIOL4110 - Microbial Evolution
- BIOL4130 - Environmental Microbiology
- BIOL4150 - Molecular Genetics
- BIOL4750 - Medical Microbiology
- BIOL4000 - General Parasitology
  OR BIOL4040 - Immunology
  OR BIOL4120 - Protozoology
  OR BIOL4140 - Pathogenic Bacteriology
  OR BIOL4160 - Genetic Engineering Lab
  OR BIOL4780 - Phycology
  OR BIOL4850 - Applied Microbiology
  OR BIOL4860 - Disease Prevention
  OR BIOL4870 - Microbiomes
  OR BIOL4770 - Mycology

Microbiology Concentration Directed Electives Select any three of the following courses (8-11 hours):

Choose 3 courses from the following options: BIOL 4000; BIOL 4040; BIOL 4120; BIOL 4140; BIOL 4160; BIOL 4770; BIOL 4780; BIOL 4850; BIOL 4860; BIOL 4870.

Additional Program Requirements

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM3005 - Elementary Organic Chemistry
  OR CHEM3010 - Organic Chemistry I
- ELECTIVE - Elective Credit
- CHEM4500 - Nutritional Biochemistry
  OR CHEM4610 - General Biochemistry I
  OR BIOL4090 - Microbial Physiology
- MATH1530 - Introductory Statistics
  OR MATH1710 - Pre-Calculus Algebra
  OR MATH1830 - Applied Calculus
  OR MATH1910 - Calculus I
- MATH1920 - Calculus II
  OR MATH3070 - Statistical Methods I
  OR BIOL4220 - Biostatistics

Note:

Mathematics: Three math/statistics courses are required- select two courses from MATH 1530, 1710, 1830, or 1910. Select one course from MATH 1920, 3070, or BIOL 4220.

** MATH 1830 and MATH 1910 can not both be taken for credit.

Upper-Division CHEM/BIOL Elective: Choose one course from the following options: BIOL 4090; CHEM 4500, or CHEM 4610.

Elective Credits

Additional free electives are needed to complete the required 120 earned hours.

Students must take CHEM 3010 and CHEM 3020 if they take CHEM 4610 (5610).

Electives (11-15 hours depending course selection)

Degree Map

Degree Map Name
Degree Plan - Biology, Microbiology Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Elective (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1530 - Introductory Statistics
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1910 - Calculus I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1910 - Calculus I

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- BIOL2310 - General Botany

Actual Credits 4

Requirement Select
- CHEM3005 - Elementary Organic Chemistry
  OR
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- BIOL3200 - General Microbiology
  OR
- BIOL3230 - Health Science Microbiology

Actual Credits 4

Requirement Select
- Elective (4 credits)
  (Generic)

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- BIOL3120 - General Ecology
  OR
- BIOL3130 - General Ecology

Actual Credits 3

Requirement Select
- BIOL/Microbiology Directed Electives

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- BIOL4220 - Biostatistics
  OR
- MATH1920 - Calculus II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- BIOL3140 - Cellular Biology

Actual Credits 4

Requirement Select
- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select
- BIOL4110 - Microbial Evolution

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- BIOL3920 - Biological Comm Skills

Actual Credits 3

Requirement Select
- BIOL4130 - Environmental Microbiology

Actual Credits 3

Requirement Select
- BIOL/Microbiology Directed Electives

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	16

Requirement Select
- BIOL4150 - Molecular Genetics

Actual Credits 3

Requirement Select
- BIOL4750 - Medical Microbiology

Actual Credits 4

Requirement Select

- CHEM4500 - Nutritional Biochemistry
  OR
- CHEM4610 - General Biochemistry I
  OR
- BIOL4090 - Microbial Physiology

Actual Credits 3

Requirement Select

- BIOL/Microbiology Directed Electives

Actual Credits 3

Requirement Select

- Electives (1 - 4 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- Three math/statistics courses are required: select two courses from MATH 1530, 1710, 1830, or 1910. Select one course from MATH 1920, 3070, or BIOL 4220. ** MATH 1830 and MATH 1910 can not both be taken for credit.
  (Generic)

Actual Credits -

Requirement Select

- Choose 3 courses from the following options: BIOL 4000; BIOL 4040; BIOL 4120; BIOL 4140; BIOL 4160; BIOL 4770; BIOL 4780; BIOL 4850; BIOL 4860; BIOL 4870.
  (Generic)

Actual Credits -

Requirement Select

- Choose 1 course from the following options: BIOL 4090; CHEM 4500; CHEM 4610
  (Generic)

Actual Credits -

BIOL-MIN - Biology Minor

Program Overview

Program Long Title

Biology Minor

College/School

Arts and Sciences

Department(s)

Biology

Requirements

Simple Requirements

Minor in Biology (BIOL)

A Biology minor consists of 15 hours in BIOL courses (six hours must be at the 3000-4000 level).

BIOL-ZOOL - Biology, Zoology Concentration, B.S.

Program Overview

Program Long Title
Biology, Zoology Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Biology

Requirements

Simple Requirements

Biology, Zoology Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
  OR NURS2600 - Communication in Health Care

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Biology, Zoology Concentration Core

Complete ALL of the following Courses:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL2310 - General Botany
- BIOL3010 - Principles of Evolution
- BIOL3130 - General Ecology
- BIOL3140 - Cellular Biology
- BIOL3200 - General Microbiology
  OR BIOL3230 - Health Science Microbiology
- BIOL3810 - General Genetics
- BIOL3920 - Biological Comm Skills
- BIOL3330 - Entomology
  OR BIOL4610 - Invertebrate Zoology
- BIOL3530 - Animal Physiology

Zoology Concentration Directed Electives Select from four of the following courses (12-15 hours):

Students must choose 4 courses from the following options: BIOL 3040; BIOL 4000; BIOL 4070; BIOL 4080; BIOL 4210; BIOL 4230; BIOL 4630; BIOL 4650; BIOL 4810; BIOL 4920; BIOL 4930; **CHEM 4500 OR CHEM 4610 (only one of these two courses may count toward Zoology directed elective credit**); GEOL 3350; WFS 4730.

NOTE: At least two of the directed electives must be selected from the four vertebrate zoology courses: BIOL 4630; BIOL 4810; BIOL 4920; BIOL 4930

Additional Program Requirements

Complete ALL of the following Courses:
- MATH1710 - Pre-Calculus Algebra
- MATH3070 - Statistical Methods I
  OR BIOL4220 - Biostatistics
- MATH1530 - Introductory Statistics
  OR MATH1830 - Applied Calculus
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM3005 - Elementary Organic Chemistry
  OR CHEM3010 - Organic Chemistry I
- GEOL1040 - Physical Geology
  OR PHYS2010 - Algebra-based Physics I

Note: Three math/statistics courses are required, one each from the following pairs of courses: MATH 1710, either MATH 1530 or MATH 1830, and either MATH 3070 or BIOL 4220 (5220)/WFS 4220 (5220).

Elective Credits

Electives (9-13 credits depending on course selection)
Additional free electives are needed to complete the required 120 earned hours. Course selection determines the number of electives needed.

Degree Map

Degree Map Name
Degree Plan - Biology, Zoology Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- Elective (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology
  OR
- PHYS2010 - Algebra-based Physics I

Actual Credits 4

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	13

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH1830 - Applied Calculus

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- BIOL2310 - General Botany

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- BIOL3130 - General Ecology

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	17

Requirement Select
- BIOL3200 - General Microbiology
  OR
- BIOL3230 - Health Science Microbiology

Actual Credits 4

Requirement Select
- CHEM3005 - Elementary Organic Chemistry
  OR
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- BIOL4220 - Biostatistics

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- BIOL3010 - Principles of Evolution

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- BIOL3140 - Cellular Biology

Actual Credits 4

Requirement Select
- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select
- BIOL3920 - Biological Comm Skills

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- BIOL3330 - Entomology
  OR
- BIOL4610 - Invertebrate Zoology

Actual Credits 3

Requirement Select
- BIOL/Zoology Directed Electives

Actual Credits 6

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- BIOL3530 - Animal Physiology

Actual Credits 3

Requirement Select
- BIOL/Zoology Directed Electives

Actual Credits 6

Requirement Select
- Electives (3-6)
  (Generic)

Actual Credits 6

Requirement Select
- 1
  Three math/statistics courses are required, one each from the following pairs of courses: MATH 1710 , either MATH 1530 or MATH 1830 , and either MATH 3070 or BIOL 4220 (5220) /WFS 4220 (5220) .
  (Generic)

Actual Credits -

Requirement Select
-
Actual Credits -

WFS-MIN - Wildlife and Fisheries Science Minor

Program Overview

Program Long Title
Wildlife and Fisheries Science Minor

College/School
Arts and Sciences

Department(s)
Biology

Requirements

Simple Requirements

Minor in Wildlife and Fisheries Science (WFS)

A minor in Wildlife and Fisheries Science consists of 15 hours in WFS courses (six hours must be at the 3000-4000 level).

WFS-WFSC - Wildlife and Fisheries Science, Conservation Biology Concentration, B.S.

Program Overview

Program Long Title
Wildlife and Fisheries Science, Conservation Biology Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Biology

Requirements

Simple Requirements

Wildlife & Fisheries Science, Conservation Biology Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
  OR NURS2600 - Communication in Health Care

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least undefined credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Wildlife & Fisheries Science, Conservation Biology Concentration Core

Complete ALL of the following Courses:
- WFS3130 - General Ecology
- WFS4500 - National Wildlife Policy
- WFS4700 - Habitat Management
- WFS4711 - Fisheries Management
- WFS4730 - Conservation Biology
- WFS4740 - Wildlife Principles
- WFS4630 - Ornithology
  OR WFS4920 - Mammalogy
- WFS4810 - Ichthyology
  OR WFS4930 - Herpetology

Additional Program Requirements

Complete ALL of the following Courses:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL2310 - General Botany
- BIOL3810 - General Genetics
  OR BIOL3100 - Genetics
- BIOL3920 - Biological Comm Skills
- BIOL4330 - Plant Ecology
  OR BIOL4340 - Plant-Animal Interactions
- BIOL3330 - Entomology
  OR BIOL4610 - Invertebrate Zoology
- GEOL1040 - Physical Geology
- MATH1710 - Pre-Calculus Algebra
- MATH3070 - Statistical Methods I
  OR BIOL4220 - Biostatistics
- MATH1530 - Introductory Statistics
  OR MATH1830 - Applied Calculus
- BIOL3250 - Field Botany

Conservation Biology Directed Electives: Choose 3 courses from the following options: AGHT 3450; BIOL 3010; BIOL 3530; BIOL 4320; BIOL 4780; BIOL 4840; ESS 4100; ESS 4110; GEOG 4510 OR WFS 4870 (only one of the two will count toward the directed elective requirements); WFS 4650; WFS 4770; WFS 4800.

Physical Science Electives: Choose 2 courses from the following options: AGRN 2400; CHEM 1010 OR CHEM 1110 (only one of the two will count toward the physical science requirements); CHEM 1020 OR CHEM 1120 (only one of the two will count toward the physical science requirements); GEOG 2100 OR GEOL 1045 (only one of the two will count toward the physical science requirements); PHYS 2010; PHYS 2020

Note: Three math/statistics courses are required, one each from the following pairs of courses: MATH 1710, either MATH 1530 or MATH 1830, and either MATH 3070 or BIOL 4220 (5220)/WFS 4220 (5220).

Elective Credits

Electives (7-8 hours depending on course selection)
Additional free electives are needed to complete the required 120 earned hours. Elective hours may vary based on course selection.

Degree Map

Degree Map Name
Degree Plan - Wildlife & Fisheries Science, Conservation Biology Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- Physical Science Elective (4 cr.): Choose 2 courses from the following options: AGRN 2400; CHEM 1010 OR CHEM 1110 (only one of the two will count toward the physical science requirements); CHEM 1020 OR CHEM 1120 (only one of the two will count toward the physical science requirements); GEOG 2100 OR GEOL 1045 (only one of the two will count toward the physical science requirements); PHYS 2010; PHYS 2020
(Generic)

Actual Credits 4

Requirement Select
- Elective (1 cr)
(Generic)

Actual Credits 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- Physical Science Elective (4 cr.): Choose 2 courses from the following options: AGRN 2400; CHEM 1010 OR CHEM 1110 (only one of the two will count toward the physical science requirements); CHEM 1020 OR CHEM 1120 (only one of the two will count toward the physical science requirements); GEOG 2100 OR GEOL 1045 (only one of the two will count toward the physical science requirements); PHYS 2010; PHYS 2020
(Generic)

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
OR
- MATH1830 - Applied Calculus

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- BIOL2310 - General Botany

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- WFS3130 - General Ecology

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- BIOL3330 - Entomology
  OR
- BIOL4610 - Invertebrate Zoology

Actual Credits 3

Requirement Select
- BIOL3920 - Biological Comm Skills

Actual Credits 3

Requirement Select
- BIOL4330 - Plant Ecology
  OR
- BIOL4340 - Plant-Animal Interactions

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- WFS4220 - Biostatistics

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- BIOL3250 - Field Botany

Actual Credits 4

Requirement Select
- BIOL3810 - General Genetics
  OR
- BIOL3100 - Genetics

Actual Credits 3

Requirement Select
- WFS/Conservation Biology Directed Electives

Actual Credits 3

Requirement Select
- WFS4810 - Ichthyology
  OR
- WFS4930 - Herpetology

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- WFS/Conservation Biology Directed Electives

Actual Credits 3

Requirement Select
- WFS4500 - National Wildlife Policy

Actual Credits 3

Requirement Select
- WFS4630 - Ornithology
  OR
- WFS4920 - Mammalogy

Actual Credits 3

Requirement Select
- WFS4700 - Habitat Management

Actual Credits 3

Requirement Select
- WFS4711 - Fisheries Management

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select
- Electives (6-7 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- WFS/Conservation Biology Directed Electives

Actual Credits 3

Requirement Select

- WFS4730 - Conservation Biology

Actual Credits 3

Requirement Select

- WFS4740 - Wildlife Principles

Actual Credits 2

Requirement Select

- Conservation Biology Directed Electives: Choose 3 courses from the following options: AGHT 3450; BIOL 3010; BIOL 3530; BIOL 4320; BIOL 4780; BIOL 4840; ESS 4100; ESS 4110; GEOG 4510 OR WFS 4870 (only one of the two will count toward the directed elective requirements); WFS 4650; WFS 4770; WFS 4800 (Generic)

Actual Credits -

WFS-WFSF - Wildlife and Fisheries Science, Fisheries Science Concentration, B.S.

Program Overview

Program Long Title

Wildlife and Fisheries Science, Fisheries Science Concentration, B.S.

College/School

Arts and Sciences

Department(s)

Biology

Requirements

Simple Requirements

Wildlife & Fisheries Science, Fisheries Science Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
  OR NURS2600 - Communication in Health Care

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Wildlife & Fisheries Science, Fisheries Science Concentration Core

Complete ALL of the following Courses:

- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL2310 - General Botany
- WFS3130 - General Ecology
- WFS4710 - Fisheries Management
- WFS4740 - Wildlife Principles
- WFS4810 - Ichthyology
- WFS4500 - National Wildlife Policy
- WFS4840 - Limnology
- WFS4760 - Fish Culture
- BIOL3810 - General Genetics
  OR BIOL3100 - Genetics
- BIOL3920 - Biological Comm Skills
- BIOL4610 - Invertebrate Zoology
- BIOL4780 - Phycology
- GEOG3200 - Water Resources
- GEOL1040 - Physical Geology
- MATH1710 - Pre-Calculus Algebra
- MATH3070 - Statistical Methods I
  OR WFS4220 - Biostatistics
- MATH1530 - Introductory Statistics
  OR MATH1830 - Applied Calculus

Fisheries Science Concentration Directed Electives
Select three of the following courses (9-10 Credits):

Choose 3 courses from the following options: BIOL 3010; BIOL 3250; BIOL 3530; BIOL 4330; GEOG 4510 OR WFS 4870 (only one of the two will count toward the directed elective requirements); WFS 3500; WFS 4230; WFS 4630; WFS 4640; WFS 4650; WFS 4730; WFS 4770; WFS 4920; WFS 4930.

Note: Only one of these two classes (GEOG 4510 or WFS 4870) will count toward this requirement.

Physical Science Electives:

Choose 2 courses from the following options: AGRN 2400; CHEM 1010 OR CHEM 1110 (only one of the two will count toward the physical science requirements); CHEM 1020 OR CHEM 1120 (only one of the two will count toward the physical science requirements); GEOG 2100 OR GEOL 1045 (only one of the two will count toward the physical science requirements); PHYS 2010; PHYS 2020.

Note: Three math/statistics courses are required, one each from the following pairs of courses: MATH 1710, either MATH 1530 or MATH 1830, and either MATH 3070 or BIOL 4220 (5220)/WFS 4220 (5220).

Electives (8-9 credits). Additional free electives are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Wildlife & Fisheries Science, Fisheries Science Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select

- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select

- Physical Science Elective: Choose 2 courses from the following options: AGRN 2400; CHEM 1010 OR CHEM 1110 (only one of the two will count toward the physical science requirements); CHEM 1020 OR CHEM 1120 (only one of the two will count toward the physical science requirements); GEOG 2100 OR GEOL 1045 (only one of the two will count toward the physical science requirements); PHYS 2010; PHYS 2020.
  (Generic)

Actual Credits 4

Requirement Select

- Elective (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select

- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select

- Physical Science Elective: Choose 2 courses from the following options: AGRN 2400; CHEM 1010 OR CHEM 1110 (only one of the two will count toward the physical science requirements); CHEM 1020 OR CHEM 1120 (only one of the two will count toward the physical science requirements); GEOG 2100 OR GEOL 1045 (only one of the two will count toward the physical science requirements); PHYS 2010; PHYS 2020. (Generic)

Actual Credits 4

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- MATH1530 - Introductory Statistics
  OR
- MATH1830 - Applied Calculus

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select

- BIOL2310 - General Botany

Actual Credits 4

Requirement Select

- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select

- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select

- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- WFS3130 - General Ecology

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	14 - 13

Requirement Select

- BIOL3100 - Genetics
  OR
- BIOL3810 - General Genetics

Actual Credits 4 - 3

Requirement Select

- MATH3070 - Statistical Methods I
  OR
- WFS4220 - Biostatistics

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- WFS4710 - Fisheries Management

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select

- GEOG3200 - Water Resources

Actual Credits 3

Requirement Select

- BIOL3920 - Biological Comm Skills

Actual Credits 3

Requirement Select
- WFS/Fisheries Science Directed Electives

Actual Credits 3

Requirement Select
- WFS4740 - Wildlife Principles

Actual Credits 2

Requirement Select
- BIOL4810 - Ichthyology

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- BIOL4610 - Invertebrate Zoology

Actual Credits 3

Requirement Select
- WFS/Fisheries Science Directed Electives

Actual Credits 6

Requirement Select
- WFS4500 - National Wildlife Policy

Actual Credits 3

Requirement Select
- WFS4840 - Limnology

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	14 - 15

Requirement Select
- BIOL4780 - Phycology

Actual Credits 3

Requirement Select
- Electives (7-8 cr)
  (Generic)

Actual Credits 7 - 8

Requirement Select
- WFS4760 - Fish Culture

Actual Credits 4

Requirement Select
- Fisheries Science Concentration Directed Electives: Choose 3 courses from the following options: BIOL 3010; BIOL 3240; BIOL 3530; BIOL 4330; GEOG 4510 OR WFS 4870 (only one of the two will count toward the directed elective requirements); WFS 3500; WFS 4230; WFS 4630; WFS 4640; WFS 4650; WFS 4730; WFS 4770; WFS 4820; WFS 4830.
  (Generic)

Actual Credits -

WFS-WFSW - Wildlife and Fisheries Science, Wildlife Science Concentration, B.S.

Program Overview

Program Long Title
Wildlife and Fisheries Science, Wildlife Science Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Biology

Requirements

Simple Requirements

Wildlife & Fisheries Science, Wildlife Science Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
  OR NURS2600 - Communication in Health Care

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Wildlife & Fisheries Science, Wildlife Science Concentration Core

Complete ALL of the following Courses:
- WFS3130 - General Ecology
- WFS3500 - Wildlife Law Enforcement
- WFS4500 - National Wildlife Policy
- WFS4660 - Wild Bird Ecology
- WFS4670 - Wild Mammal Ecology
- WFS4700 - Habitat Management
- WFS4711 - Fisheries Management
- WFS4740 - Wildlife Principles
- WFS4790 - Wildlife Techniques
- WFS4930 - Herpetology

WFS 4790 is a field-based class taught only during summer.

Additional Program Requirements

Complete ALL of the following Courses:
- AGHT3450 - Dendrology
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL2310 - General Botany
- BIOL3240 - Field Botany (Inactive)
- BIOL3810 - General Genetics
  OR BIOL3100 - Genetics
- BIOL3920 - Biological Comm Skills
- GEOL1040 - Physical Geology
- MATH1710 - Pre-Calculus Algebra
- MATH3070 - Statistical Methods I
  OR BIOL4220 - Biostatistics
- MATH1530 - Introductory Statistics
  OR MATH1830 - Applied Calculus

Additional Requirement:

Physical Science Electives: Choose 2 courses from the following options: AGRN 2400; CHEM 1010 OR CHEM 1110 (only one of the two will count toward the physical science requirements); CHEM 1020 OR CHEM 1120 (only one of the two will count toward the physical science requirements); GEOG 2100 OR GEOL 1045 (only one of the two will count toward the physical science requirements); PHYS 2010; PHYS 2020.

Note: Three math/statistics courses are required, one each from the following pairs of courses: MATH 1710, either MATH 1530 or MATH 1830, and either MATH 3070 or BIOL 4220 (5220)/WFS 4220 (5220).

Additional Program Requirements

Wildlife Science Directed Electives (6 credits)

Earn at least 6 credits from the following:
- BIOL3010 - Principles of Evolution
- BIOL3530 - Animal Physiology

- BIOL4330 - Plant Ecology
- ESS4100 - National Parks/Protected Areas
- ESS4110 - Human Dimensions/Nat Res Mgmt
- GEOG4510 - Theory of GIS I
  OR WFS4870 - GIS for Wildlife/Fisheries
- WFS3550 - Wildlife Damage Management
- WFS4640 - Waterfowl Ecology & Mgmt
- WFS4730 - Conservation Biology
- WFS4770 - Nongame Species Mgmt
- WFS4810 - Ichthyology

Wildlife Science Concentration Directed Electives Choose 2 courses from the following options: BIOL 3010; BIOL 3530; BIOL 4330; ESS 4100; ESS 4110; GEOG 4510 OR WFS 4870 (only one of the two will count toward the directed elective requirements); WFS 3550; WFS 4640; WFS 4730; WFS 4770; WFS 4810.

*Note: Only one of these two (GEOG 4510 OR WFS 4870) will count toward this requirement.

Elective Credits

Electives (4-5 hours)
Additional free electives are needed to complete the required 120 earned hours. Elective hours may vary based on course selection.

Degree Map

Degree Map Name
Degree Plan - Wildlife & Fisheries Science, Wildlife Science Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- Physical Science Elective (4 cr.) (Generic)

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- Physical Science Elective (4 cr.) (Generic)

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH1830 - Applied Calculus

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- BIOL2310 - General Botany

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- WFS3130 - General Ecology

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- AGHT3450 - Dendrology

Actual Credits 3

Requirement Select
- BIOL3100 - Genetics

  OR
- BIOL3810 - General Genetics

Actual Credits 3

Requirement Select
- WFS/Wildlife Science Directed Electives

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I

  OR
- WFS4220 - Biostatistics

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- BIOL3250 - Field Botany

Actual Credits 4

Requirement Select
- WFS3500 - Wildlife Law Enforcement

Actual Credits 3

Requirement Select
- WFS4660 - Wild Bird Ecology

Actual Credits 3

Requirement Select
- WFS4740 - Wildlife Principles

Actual Credits 2

Requirement Select
- WFS4930 - Herpetology

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- BIOL3920 - Biological Comm Skills

Actual Credits 3

Requirement Select
- WFS4500 - National Wildlife Policy

Actual Credits 3

Requirement Select
- WFS4670 - Wild Mammal Ecology

Actual Credits 3

Requirement Select
- WFS4700 - Habitat Management

Actual Credits 3

Requirement Select
- WFS4711 - Fisheries Management

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- Electives (4 cr.)

  (Generic)

Actual Credits 4

Requirement Select
- WFS4790 - Wildlife Techniques

Actual Credits 6

Requirement Select
- WFS/Wildlife Science Directed Electives

Actual Credits 3

Requirement Select

- Physical Science Electives: Choose 2 courses from the following options: AGRN 2400; CHEM 1010 OR CHEM 1110 (only one of the two will count toward the physical science requirements); CHEM 1020 OR CHEM 1120 (only one of the two will count toward the physical science requirements); GEOG 2100 OR GEOL 1045 (only one of the two will count toward the physical science requirements); PHYS 2010; PHYS 2020.
  (Generic)

Actual Credits -

Requirement Select

- Wildlife Science Concentration Directed Electives Choose 2 courses from the following options: BIOL 3010; BIOL 3530; BIOL 4330; ESS 4100; ESS 4110; GEOG 4510 OR WFS 4870 (only one of the two will count toward the directed elective requirements); WFS 3550; WFS 4640; WFS 4730; WFS 4770; WFS 4810. *Note: Only one of these two (GEOG 4510 OR WFS 4870) will count toward this requirement.
  (Generic)

Actual Credits -

Courses

Course Information

Course Title
Foundations in Biology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
1001

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
An introduction to the successful study of Biology and Wildlife & Fisheries Science, designed to introduce new students to the Biology Department at Tennessee Tech, including the choices of majors, resume-building opportunities, and student organizations within the department. The course will explore basic concepts within the field of biology, which will provide a foundation for future biology coursework and development for a successful career.

College/School
Arts and Sciences

Syllabus
07c Biology - 1 Course Addition - BIOL1001.pdf

Course Information

Course Title
Introduction to Biology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
1010

Credit Hours

Credit Hours:
4

Credit Hours:
4

Lecture Hours

Min:
3

Max:
3

Lab Hours

Min:
2

Max:
2

Repeatable for Credit:
No

Course Description
Introduction to concepts of biology and their relationships to current and future social problems. Non-biology majors only. Credit will not be given for both BIOL 1010 and BIOL 1113 (formerly BIOL 1105).

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Natural Sciences).

Course Information

Course Title
Diversity of Life

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
1020

Credit Hours

Credit Hours:
4

Credit Hours:
4

Lecture Hours

Min:
3

Max:
3

Lab Hours

Min:
2

Max:
2

Repeatable for Credit:
No

Course Description
Note: BIOL 1010 is not a prerequisite. Survey of plant and animal diversity, introductory ecology, and man's impact on the environment. Non-biology majors only.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Natural Sciences).

Course Information

Course Title
Concepts of Biology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
1080

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Basic concepts of biology including botany, zoology, and environmental applications. This course will not count as a part of a biology sequence.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Natural Sciences).

Course Information

Course Title
Concepts of Biology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
1090

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
This course is designed to introduce future educators to life science, and to provide them with a basic understanding of the unifying biological principles common to all organisms, in preparation for teaching these concepts to students in grades K-6. Course topics include the scientific method, basic biochemistry, cell structure and function, cell energetics, cellular reproduction, human anatomy and health, Mendelian and molecular genetics, ecology, diversity and evolution of life on Earth. Three hours of lecture and one two-hour laboratory per week. This course will not count as a part of a biology sequence.

College/School
Arts and Sciences

Syllabus
BIOL1090_Course_Syllabus_4_credits[1].docx, General education new 1090 courses - UCC Feb 2025.docx, BIOL 1090 GE prop spet 25.pdf

Course Information

Course Title
General Biology I

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
1113

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
A basic foundation in biological principles common to all organisms with an emphasis on molecules, cells and organelles, respiration, photosynthesis, metabolism and enzymatic function, genetics and inheritance, cellular reproduction, evolution, and speciation. Credit will not be given for both BIOL 1113 and BIOL 1010.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Scientific Reasoning).

Course Information

Course Title
General Biology II

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
1123

Credit Hours

Credit Hours:
4

Credit Hours:
4

Lecture Hours

Min:
3

Max:
3

Lab Hours

Min:
2

Max:
2

Repeatable for Credit:
No

Course Description
Introduction to the principles of zoology and the diversity of life.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 1113 is highly recommended.

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Natural Sciences).

Course Information

Course Title
Biological Terminology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
2000

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
An introduction to biological terminology, including zoological, botanical, ecological, and medical terminology, with an emphasis on developing proficiency with the use of word roots and derivations.

College/School
Arts and Sciences

Course Information

Course Title
Human Anatomy & Physiology I

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
2010

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Structure and function of the human body for nursing and other majors requiring a detailed examination of the topic. First course in a two course sequence. (See BIOL 2020).

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Scientific Reasoning).

Course Information

Course Title
Human Anatomy & Physiology II

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
2020

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisite: BIOL 2010. Continuation of BIOL 2010.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 2010.

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Scientific Reasoning).

Course Information

Course Title
General Botany

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
2310

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
This course addresses the life cycles, morphology, and phylogeny of major clades of organisms, with an emphasis on fungi, protists, and plants.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
It is highly recommended that students wait until their Sophomore year to take this course.

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Scientific Reasoning).

Course Information

Course Title
Intro Anatomy & Physiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
2350

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
An introductory course in human anatomy and physiology intended for students of health and physical education, human ecology, psychology, and other majors requiring a basic survey of the topics.

College/School
Arts and Sciences

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
2991

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four hours on a special topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299- Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
2992

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four hours on a special topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299- Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
2993

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four hours on a special topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299- Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
2994

Credit Hours

Credit Hours:
4

Other Hours

Min:
4

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four hours on a special topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299- Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Principles of Evolution

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Study of mechanisms and selective pressures associated with evolutionary processes, from the level of the gene to individuals and finally to populations of organisms.

College/School
Arts and Sciences

Syllabus
BIOL 3010 Syllabus.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: BIOL 1010 or BIOL 1113.

Course Information

Course Title
Comparative Vertebrate Anatomy

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3040

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: BIOL 1113 and BIOL 1123. Anatomy and phylogeny of vertebrates and comparative study of systems of representative types.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 1113 and BIOL 1123.

Course Information

Course Title
General Ecology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The relationship between plants and animals and their environment. This course can not be taken as part of the university science requirement and credit will not be given for both BIOL 3120 and BIOL/WFS 3130.

College/School
Arts and Sciences

Course Information

Course Title
General Ecology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3130

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Course Description
The relationship between plants and animals and their environment. The laboratory provides examples of concepts discussed in lecture and analytical procedures used in interpreting data. (Same as WFS 3130.)

College/School
Arts and Sciences

Course Information

Course Title
Cellular Biology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3140

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: BIOL 1123. An introduction to structure and function of cells.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 1123.

Course Information

Course Title
General Microbiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3200

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: BIOL 1123. Introduction to basic concepts of microbiology (non-medical). Intended for students not in health-science programs. Credit will not be given for both BIOL 3200 and BIOL 3230.

College/School
Arts and Sciences

Course Information

Course Title
Health Science Microbiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3230

Credit Hours

Credit Hours:
4

Credit Hours:
4

Lecture Hours

Min:
2

Max:
2

Lab Hours

Min:
4

Max:
4

Course Description
Prerequisite: Sophomore standing. Introduction to microbiology. Intended for students majoring in nursing or other preprofessional programs. Credit will not be given for both BIOL 3200 and BIOL 3230.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore standing.

Course Information

Course Title
Field Botany

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3250

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisites Biol 2310 and Junior standing. Survey of regional flora (herbs, shrubs, and trees) focusing on gymnosperms and angiosperms. Emphasis on nomenclature, structural characteristics, identification of species using a dichotomous key, and characteristics of plant families.

College/School
Arts and Sciences

Syllabus
07b Biology - 5 Course Additions, 5 Course Deletions, Curriculum Changes.pdf

Requisites and Restrictions

Prerequisite:
BIOL 2310 and Junior Standing.

Course Information

Course Title
Entomology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3330

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Common harmful and beneficial insects of this region and their control.

College/School
Arts and Sciences

Course Information

Course Title
Animal Physiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: BIOL 1113, 1123. General principles of animal function.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 1113 and BIOL 1123.

Course Information

Course Title
Humanism in Medicine

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3700

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing. An introduction to ethics and humanism in medicine as a means of understanding the basic values and tenets of the medical profession. The course is especially designed for students who plan to become physicians, physical therapists, physican assistants, nurse practitioners, and related health-care professionals.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
General Genetics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3810

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: BIOL 1113. Principles and laws governing inheritance in plants and animals, including man.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 1113.

Course Information

Course Title
Biological Comm Skills

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
3920

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing. Locating and using resource materials, technical writing, and oral presentations in biological disciplines.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
General Parasitology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4000

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: BIOL 1123 and BIOL 3120 or BIOL 3130 or WFS 3130. Biology of animal agents and vectors of diseases with emphasis placed on medical parasitology and organisms that parasitize fish and wildlife species.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 1123, BIOL 3120 or BIOL 3130 or WFS 3130.

Course Information

Course Title
Immunology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4040

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing. Introduction to basic principles of cellular and molecular immunology.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Virology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4050

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: BIOL 1113. An introduction to the biology of viruses, focusing on viral structure, classification, host-virus interactions, and viral transmission. Also discusses how viruses can be used for gene therapy and vaccine development.

College/School
Arts and Sciences

Syllabus
Syllabus BIOL 4050 (Virology).docx

Course Information

Course Title
Hormones & Chem Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4060

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BIOL 3140 and CHEM 1110 or CHEM 1210. A survey of hormones, their functions and mechanisms of action in vertebrate animals, including humans.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3140 and CHEM 1110 or CHEM 1210.

Course Information

Course Title
Vertebrate Development

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4070

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: BIOL 1113 and BIOL 1123. Development of vertebrates from the origin of gametes through hatching or birth, including embryonic anatomy and physiology and events, mechanisms, facts, and theories influencing vertebrate development.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 1113 and BIOL 1123.

Course Information

Course Title
Vertebrate Evolution

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4080

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Overview of the evolution of all major vertebrate groups

College/School
Arts and Sciences

Syllabus
BIOL 4080-5080 Syllabus.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: BIOL 3010

Course Information

Course Title
Microbial Physiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4090

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to the biochemistry of microorganisms

College/School
Arts and Sciences

Syllabus
Syllabus - BIOL 4090 - Microbial Physiology.pdf

Requisites and Restrictions

Prerequisite:
Prerequisite: BIOL 3200 or BIOL 3230.

Course Information

Course Title
Evolutionary Biology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: BIOL 3810 and BIOL 3130 or WFS 3130. Theories, evidences, principles, and examples of organic evolution. Emphasis on anatomical, chemical, ecological, geological, anthropological, and genetic factors.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3810 and BIOL 3130 or WFS 3130.

Course Information

Course Title
Microbial Evolution

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BIOL 3200 or BIOL 3230. Survey of microbial diversity and an in-depth evaluation of evolutionary mechanisms that lead to microbial speciation.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3200 or BIOL 3230.

Course Information

Course Title
Protozoology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4120

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: BIOL 3200 or BIOL 3230. Diversity, ecology, and taxonomy of protozoa, and the importance of protozoa as agents of human disease and as model organisms for studying eukaryotic cell biology.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3200 or BIOL 3230.

Course Information

Course Title
Environmental Microbiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4130

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: BIOL 3200 or 3230. The function of microorganisms in the environment.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3200 or BIOL 3230.

Course Information

Course Title
Pathogenic Bacteriology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4140

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BIOL 3200 or BIOL 3230. Common Bacterial pathogens will be reviewed, including: 1. How they cause disease; 2. Virulence factors and how they are identified and studied; and 3. Prevention of disease transmission.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3200 or BIOL 3230.

Course Information

Course Title
Molecular Genetics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BIOL 3810, CHEM 3005 or 3020. Molecular basis of inheritance with special emphasis on microorganisms.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3810, CHEM 3005 or CHEM 3020.

Course Information

Course Title
Genetic Engineering Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4160

Credit Hours

Credit Hours:
2

Lab Hours

Min:
4

Course Description
Prerequisite or corequisite: BIOL 4150. Techniques of bacterial genetics and recombinant DNA methodology.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite or corequisite:
BIOL 4150 (5150).

Course Information

Course Title
Population/Conserv Genetics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4170

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BIOL 1123 and BIOL 3810. Introduction to empirical and theoretical conservation genetics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 1123 and BIOL 3810.

Course Information

Course Title
Molecular Signal Integration

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4190

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Using plants to explore how organisms perceive and respond to environmental cues.

College/School
Arts and Sciences

Syllabus
BIOL 4190-5190 Syllabus.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: BIOL 2310 and BIOL 3140.

Course Information

Course Title
Plant Developmental Morphology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4200

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: BIOL 2310 and Junior standing. Study of developmental processes that shape the form and structure of plants.

College/School
Arts and Sciences

Syllabus
BIOL 4200-5200 Syllabus.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: BIOL 2310 and junior standing.

Course Information

Course Title
Biological Systems Modeling

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to process-based models and all aspects of the model life cycle: equation generation, parameterization, evaluation, and utilization.

College/School
Arts and Sciences

Syllabus
Syllabus Fall 2024_BioSysModeling.pdf, Syllabus Fall 2024_BIOL 4210-5210 BioSysModeling.pdf

Course Information

Course Title
Biostatistics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 1530 or MATH 1830. Probability and frequency distribution; statistical populations and samples; and tests of hypotheses used in biological research. (Same as WFS 4220.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
MATH 1530 or MATH 1830.

Course Information

Course Title
Animal Behavior

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing. Introduction to basic principles underlying the behavior of animals. (Same as WFS 4230.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Systematic Botany

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4240

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: BIOL 3240. Principles of evolutionary relationships among major plan groups, with an emphasis on the phylogeny of gymnosperms and flowering plant families.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3240.

Course Information

Course Title
Economic Botany

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BIOL 2310. Interrelationships between plants and people. Topics include a survey of the past, present, and future uses of plants and the role of conservation biology in the preservation of plant resources.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 2310.

Course Information

Course Title
Plant Speciation/Evolution

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BIOL 1123. Principles of the evolution of plants at the micro- and macroevolution levels, including a survey of relevant primary and secondary literature.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 1123.

Course Information

Course Title
Plant Anatomy

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4310

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: BIOL 2310 and Junior standing. A comparative study of the structure of vascular plants in relation to function.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 2310 and Junior Standing.

Course Information

Course Title
Plant Physiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4320

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Physiological activities of seed plants, including photosynthesis, respiration, mineral nutrition, flowering, seed formation, and dormancy.

College/School
Arts and Sciences

Course Information

Course Title
Plant Ecology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4330

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: BIOL 2310. Biotic and abiotic factors affecting the distribution and abundance of plant species and the role of plants in ecosystem structure and function.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 2310 and Junior Standing.

Course Information

Course Title
Plant-Animal Interactions

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4340

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: BIOL 2310 and junior standing. Interactions of plants and animals in aquatic, terrestrial, and atmospheric environments at various ecological scales.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 2310 and junior standing.

Course Information

Course Title
Restoring Resilient Ecosystems

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4350

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Exploration of changes in land use in North America and plant genetic diversity, provenance, and functional traits to aid in ecosystem restoration.

College/School
Arts and Sciences

Syllabus
BIOL 4350-5350 Syllabus.docx

Requisites and Restrictions

Prerequisite:
Junior standing or consent of instructor.

Course Information

Course Title
Science and Art of Botany

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4360

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Instruction for identifying and drawing plant structures to better understand plant morphology.

College/School
Arts and Sciences

Syllabus
BIOL 4360 Syllabus.docx

Course Information

Course Title
Invertebrate Zoology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4610

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: BIOL 3130 or WFS 3130. Biology of invertebrates with emphasis on morphology, systematics and ecology.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3130 or WFS 3130.

Course Information

Course Title
Ornithology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4630

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: Junior standing. General survey of the class Aves with emphasis on morphology, identification and ecology of local birds. (Same as WFS 4630.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Marine Biology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4650

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: BIOL 3130 or WFS 3130. An introduction to the study of the marine environment and marine organisms. (Same as WFS 4650.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3130 or WFS 3130.

Course Information

Course Title
Medical Microbiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4750

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: BIOL 3200 or 3230. A survey of microorganisms of medical importance with emphasis on the bacteria and viruses. Principles of infectious disease, including diagnostic methods and treatments. Laboratory exercises demonstrating methods of isolating and identifying pathogenic microorganisms.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3200 or BIOL 3230.

Course Information

Course Title
Mycology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4770

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to fungi, covering their diversity, biology, physiology, genetics, interactions, and industrial applications.

College/School
Arts and Sciences

Syllabus
BIOL 4770-5770 updated Syllabus.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: BIOL 3200 or BIOL 3230.

Course Information

Course Title
Phycology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4780

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: Junior standing. Introduction to freshwater algae.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Ichthyology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4810

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: Junior standing. Identification, classification, anatomy, physiology, ecology, and adaptations of fishes; emphasis on North American freshwater species. (Same as WFS 4810.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Limnology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4840

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: Junior standing. Physiochemical and biological dynamics of inland water. (Same as WFS 4840).

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Applied Microbiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4850

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: BIOL 3200 or 3230. Microbial production of foods and chemicals; microorganisms in food spoilage.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Disease Prevention

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4860

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Mechanisms of disease transmission, persistence of pathogens, and infection control.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing.

Course Information

Course Title
Microbiomes

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4870

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: BIOL 3200 or BIOL 3230. An in-depth look at how the microbes in and on the human body affect everyday life and health.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3200 or BIOL 3230.

Course Information

Course Title
Bioethics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4880

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior Standing. Introduction to the field of bioethics focusing on practical applications of ethical principles related to healthcare, medical science, and medical technology.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Histology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4890

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Repeatable for Credit:
No

Course Description
Prerequisites: BIOL 1113 and BIOL 1123 or BIOL 2010. A detailed study of the microscopic structure of human tissues along with their cellular components, the methods used to prepare tissue samples for microscopy, and various common staining techniques.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 1113 and BIOL 1123 or BIOL 2010.

Course Information

Course Title
Internship in Biology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4900

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisite: Consent of instructor required. Students work with a public agency or private company or organization that is compatible with their interest. (May be taken twice if the assignments are with different organizations or with different divisions with an organization.)

College/School
Arts and Sciences

Course Information

Course Title
Mammalogy

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4920

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Junior standing. Classification, structure and function, phylogeny, and geographical distribution of mammals; emphasis on Tennessee mammals. (Same as WFS 4920.)

College/School
Arts and Sciences

Syllabus
07b Biology - 5 Course Additions, 5 Course Deletions, Curriculum Changes.pdf

Requisites and Restrictions

Prerequisite:
Junior standing.

Course Information

Course Title
Herpetology

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4930

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Junior standing. Classification, adaptations, habits, life histories, and geographical distribution of amphibians and reptiles; emphasis on North American species. (Same as WFS 4930.)

College/School
Arts and Sciences

Syllabus
07b Biology - 5 Course Additions, 5 Course Deletions, Curriculum Changes.pdf

Requisites and Restrictions

Prerequisite:
Junior standing.

Course Information

Course Title
Senior Thesis I in Botany

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4981

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Supervised independent study of an original research project.

College/School
Arts and Sciences

Syllabus
BIOL 4981 Syllabus.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: Senior standing and Botany Concentration only.

Course Information

Course Title
Senior Thesis II in Botany

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4982

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Supervised independent study of an original research project.

College/School
Arts and Sciences

Syllabus
BIOL 4982 Syllabus.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: BIOL 4981.

Course Information

Course Title
Advanced Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4991

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299-Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Advanced Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4992

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299-Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Advanced Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4993

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299-Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Advanced Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
BIOL

Course Number
4994

Credit Hours

Credit Hours:
4

Other Hours

Min:
4

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299-Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Oceanography I: Ph Ch Geo

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
3000

Credit Hours

Credit Hours:
5

Lecture Hours

Min:
5

Course Description
Prerequisite: College algebra and two semesters of chemistry. Integration of chemical, geological, and physical oceanography to provide a multidisciplinary approach to the fundamentals of oceanography.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
College Algebra and two semesters of Chemistry.

Course Information

Course Title
Oceanography II: Ph Ch Geo

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
3010

Credit Hours

Credit Hours:
5

Lecture Hours

Min:
5

Course Description
Prerequisite: Eight semester hours of biology. General introduction to marine biology with emphasis on local fauna and flora.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Eight semester hours of Biology.

Course Information

Course Title
Marine Invertebrate Zoology

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4030

Credit Hours

Credit Hours:
6

Lab Hours

Min:
6

Course Description
Prerequisite: 16 semester hours of biology. Structure, classification, phylogeny, and function in Protozoa through the Lophophorata. Observation of their ecology and behavior.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
16 semester hours of Biology.

Course Information

Course Title
Parasites/Marine Animals

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4040

Credit Hours

Credit Hours:
6

Lab Hours

Min:
6

Course Description
Prerequisite: BIOL 3200 or 3230 or consent of instructor. Morphology, taxonomy, life histories, and host-parasite relationships.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3200 or BIOL 3230 or consent of instructor.

Course Information

Course Title
Marine Ecology

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4050

Credit Hours

Credit Hours:
5

Lecture Hours

Min:
5

Course Description
Prerequisite: 16 semester hours of biology, including general zoology, general botany, and invertebrate zoology. Relationship of marine organisms to their environment.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
16 semester hours of Biology, including General Zoology, General Botany, and Invertebrate Zoology.

Course Information

Course Title
Fauna and Faunistic

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4060

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Course Description
Prerequisite: 16 semester hours of biology and junior standing or consent of instructor. Taxonomy, distribution, trophic relationships, reproductive strategies, and adaptations. Emphasis on northern Gulf marshes.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
16 semester hours of Biology and Junior Standing or consent of instructor.

Course Information

Course Title
Marine Aquaculture

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4070

Credit Hours

Credit Hours:
6

Lecture Hours

Min:
6

Course Description
Prerequisite: 16 semester hours of zoology, including invertebrate and vertebrate zoology of ichthyology. Technology, principles, and problems of aquaculture. Emphasis on marine species.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
16 semester hours of Zoology, including Invertebrate and Vertebrate Zoology of Ichthyology.

Course Information

Course Title
Marine Ichthyology

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4080

Credit Hours

Credit Hours:
6

Lecture Hours

Min:
6

Course Description
Prerequisite: 12 semester hours of biology and junior standing. Marine Chordata, including lower groups and the mammals and birds. Emphasis on fishes.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
12 semester hours of Biology and Junior Standing.

Course Information

Course Title
Marine Microbiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4090

Credit Hours

Credit Hours:
5

Lab Hours

Min:
5

Course Description
Prerequisite: BIOL 3200 or 3230 or consent of instructor. Sampling procedures, taxonomy of marine bacteria, mineralization, microbial, fouling, pollution, and diseases of marine animals.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3200 or BIOL 3230 or consent of instructor.

Course Information

Course Title
Marine Fisheries Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4100

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Course Description
Prerequisite: Consent of instructor. Overview of practical marine fishery management program.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Marine Phycology

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4200

Credit Hours

Credit Hours:
4

Lab Hours

Min:
4

Course Description
Prerequisite: Eight semester hours of biology, including introductory botany or consent of instructor. Survey of the principal groups of marine algae and maritime flowering plants.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Eight semester hours of Biology, including introductory Botany or consent of instructor.

Course Information

Course Title
Coastal Vegitation

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4210

Credit Hours

Credit Hours:
3

Lab Hours

Min:
3

Course Description
Prerequisite: 10 semester hours of biology, including general biology. Aspects of coastal vegetation. Emphasis on local examples.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
10 semester hours of Biology, including General Biology.

Course Information

Course Title
Salt Marsh Plant Ecology

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4220

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Course Description
Prerequisite: General botany, plant taxonomy, plant physiology, general ecology or consent of instructor. Identification, composition, structure, distribution, primary productivity, ecology, and development.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
General Botany, Plant Taxonomy, Plant Physiology, General Ecology or consent of instructor.

Course Information

Course Title
Comp Hist Marine Organisms

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4300

Credit Hours

Credit Hours:
1

Credit Hours:
6

Lecture Hours

Min:
1

Max:
6

Course Description
Prerequisite: Consent of instructor. Processing tissues using light, transmission electron, and scanning electron microscopy.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Marine Chemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4410

Credit Hours

Credit Hours:
6

Lab Hours

Min:
6

Course Description
Prerequisite: 16 semester hours of chemistry, three to six semester hours of biology and geology or consent of instructor. Chemical aspects of oceans and interactions of chemistry, biology, and geology in marine environments.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
16 semester hours of Chemistry, three to six semester hours of Biology and Geology or consent of instructor.

Course Information

Course Title
Behavior Neurobiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4440

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Course Description
Prerequisite: 16 semester hours of zoology and/or psychology or consent of instructor. Behavior, neuroanatomy, and neurophysiology. Emphasis on neural mechanisms underlying behavior.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
16 semester hours of Zoology and/or Psychology or consent of instructor.

Course Information

Course Title
Marine Science for Teachers

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4570

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Biology background or consent of instructor. Introduction to marine science for public school teachers.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Biology background or consent of instructor.

Course Information

Course Title
Marine Sci-Elem Teacher

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4580

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Six semester hours of biology. Materials and methods in teaching marine science to elementary students.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Six semester hours of Biology.

Course Information

Course Title
Spec Prob-Marine Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4590

Credit Hours

Credit Hours:
1

Credit Hours:
6

Other Hours

Min:
1

Max:
6

Operator:
TO

Course Description
Prerequisite: To be set by problem director. Research oriented problems reported in writing.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
To be set by problem director.

Course Information

Course Title
Spec Prob-Marine Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
MBIO

Course Number
4910

Credit Hours

Credit Hours:
1

Credit Hours:
6

Other Hours

Min:
1

Max:
6

Operator:
TO

Course Description
Prerequisite: To be set by topics advisor. Special study in a field topic approved by the GCRL Topics Advisor and the student's institutional advisor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
To be set by topics advisor.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
2991

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four hours on a special topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299- Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
2992

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four hours on a special topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299- Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
2993

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four hours on a special topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299- Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
2994

Credit Hours

Credit Hours:
4

Other Hours

Min:
4

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four hours on a special topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299- Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
General Ecology

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
3130

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
The relationship between plants and animals and their environment. The laboratory provides examples of concepts discussed in lecture and analytical procedures used in interpreting data.

College/School
Arts and Sciences

Course Information

Course Title
Wildlife Law Enforcement

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
State wildlife laws and practices used in their enforcement.

College/School
Arts and Sciences

Course Information

Course Title
Wildlife Damage Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
3550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing. Introduction to the principles and practices of wildlife damage management.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Animal Behavior

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing. Introduction to basic principles underlying the behavior of animals.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Biostatistics

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 1530 or MATH 1830. Probability and frequency distribution; statistical populations and samples; and tests of hypotheses used in biological research.

College/School
Arts and Sciences

Course Information

Course Title
National Wildlife Policy

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Eight semester hours of biology. Policies, agencies, and laws that influence wildlife management on a national level.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Eight semester hours of Biology.

Course Information

Course Title
Ornithology

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4630

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: Junior standing. General survey of the class Aves with emphasis on morphology, identification, and ecology of local birds

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Waterfowl Ecology & Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4640

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisites: BIOL 3130 or WFS 3130. Advanced ecological principles as illustrated by ducks, geese, and swans, including habitat selection, morphological and behavioral adaptations, intraspecific and interspecific interactions, and reproductive ecology. Field techniques for identifying species and management approaches are emphasized in the laboratory.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3130 or WFS 3130.

Course Information

Course Title
Marine Biology

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4650

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: BIOL 3130 or WFS 3130. An introduction to the study of the marine environment and marine organisms.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3130 or WFS 3130.

Course Information

Course Title
Wild Bird Ecology

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4660

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite or Concurrent Enrollment: BIOL 3130 or WFS 3130. The ecology and natural history of selected avian species, emphasizing game species, endangered species, predators and pests. Anatomy and procedures for identification are the focus of laboratories.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3130 or WFS 3130 or concurrent enrollment.

Course Information

Course Title
Wild Mammal Ecology

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4670

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite or Concurrent Enrollment: BIOL 3130 or WFS 3130. The natural history and ecology of selected mammal species, emphasizing game species, furbearers, endangered species, predators, and pests. Anatomy and procedures for identification are the focus of the laboratories.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3130 or WFS 3130 or concurrent enrollment.

Course Information

Course Title
Habitat Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4700

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: BIOL 3240. Description, principles, and techniques of quantitative characterization of wildlife habitat types.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3240.

Course Information

Course Title
Fisheries Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4710

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisites: BIIOL 3130 or WFS 3130. Theory, methods, and techniques of freshwater fisheries management. Field and laboratory.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3130 or WFS 3130.

Course Information

Course Title
Fisheries Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4711

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: BIOL 3130 or WFS 3130. Classroom-based overview of theory, methods, and techniques of freshwater fisheries management.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3130 or WFS 3130.

Course Information

Course Title
Conservation Biology

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4730

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BIOL 3130 or WFS 3130. Advanced concepts of plant and animal conservation, including biodiversity, population genetics, habitat fragmentation, endangered and threatened species, and ecosystem management.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3130 or WFS 3130.

Course Information

Course Title
Wildlife Principles

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4740

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: BIOL 3130 or WFS 3130. Classroom-based theory and principles of wildlife management.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3130 or WFS 3130.

Course Information

Course Title
Fish Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4760

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: BIOL 3130 or WFS 3130. Cultural practices; hatchery operation, care of brood fish, transport, and stocking; and the ecological requirements of hatchery species.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3130 or WFS 3130.

Course Information

Course Title
Nongame Species Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4770

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior Standing. Advanced concepts of managing non-game species. Topics include urban wildlife, funding mechanisms, monitoring and inventory techniques, habitat management, rarer species, and state wildlife action plans.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Wildlife Techniques

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4790

Credit Hours

Credit Hours:
0

Credit Hours:
6

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
12

Course Description
Prerequisite: WFS 4740. Field-based techniques for studying and managing wildlife populations.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
WFS 4740 (5740).

Course Information

Course Title
Conservation Techniques

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4800

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
6

Course Description
Prerequisite: BIOL 3120 or BIOL/WFS 3130. Field-based techniques used by conservation biologists to study and manage fish and wildlife populations.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
BIOL 3120 or BIOL 3130/WFS 3130.

Course Information

Course Title
Ichthyology

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4810

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: Junior standing. Identification, classification, anatomy, physiology, ecology and adaptations of fishes, with emphasis on North American freshwater species (Same as BIOL 4810).

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Limnology

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4840

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisites: Junior standing. Physiochemical and biological dynamics of inland waters.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
GIS for Wildlife/Fisheries

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4870

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: Junior Standing. Introduction to Geographic Information Systems (GIS) using both raster and vector spatial data models, with hands on experience utilizing computers to aid problem solving in Wildlife and Fisheries Science.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Internship in WFS

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4900

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisite: Consent of instructor required. Students work with a public agency that is compatible with their interests. (May be taken twice if the assignments are with different agencies or different divisions within an agency.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor required.

Course Information

Course Title
Mammalogy

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4920

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Junior standing. Classification, structure and function, phylogeny and geographical distribution of mammals, with emphasis on Tennessee mammals.

College/School
Arts and Sciences

Syllabus
07b Biology - 5 Course Additions, 5 Course Deletions, Curriculum Changes.pdf

Course Information

Course Title
Herpetology

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4930

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Junior standing. Classification, adaptions, habits, life histories, and geographical distribution of amphibians and reptiles, with emphasis on North American species (Same as BIOL 4930).

College/School
Arts and Sciences

Syllabus
07b Biology - 5 Course Additions, 5 Course Deletions, Curriculum Changes.pdf

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4991

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299-Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4992

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299-Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4993

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299-Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
WFS

Course Number
4994

Credit Hours

Credit Hours:
4

Other Hours

Min:
4

Repeatable for Credit:
Yes

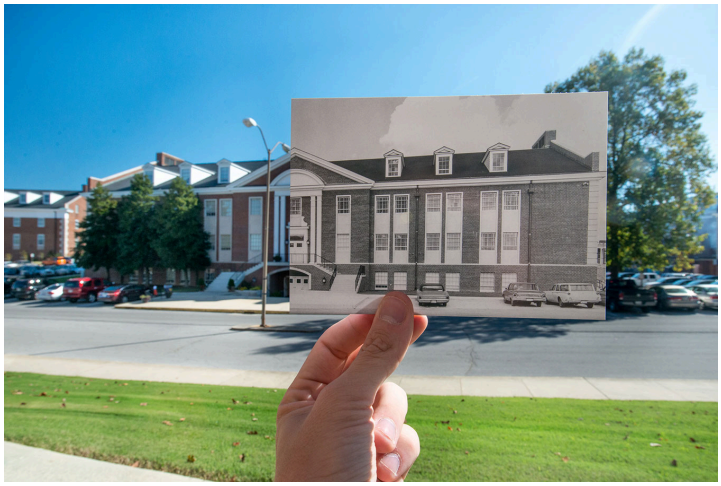
Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the department chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 299-Topics or BIOL (WFS) 499- (599-) Advanced Topics courses are earned.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Business Department



Thomas Payne, Dean
Nat Natarajan, Associate Dean

Departments and Programs

- Student Success Center
- Department of Accounting
- Department of Decision Sciences and Management

- Department of Economics, Finance and Marketing

Go to information for College of Business Mission, Vision, and Character & Values statements.

Business Program Curriculum

The College of Business offers undergraduate majors leading to the Bachelor of Science in Business Administration (B.S.B.A) degree and to the Bachelor of Science (B.S.) degree.

The College of Business offers minors in various areas of business which can be earned by both business majors and by students in all majors across campus. Students may also also pursue Certificate programs in addition to their major or minor choices. These opportunities allow students to stack their academic credentials to create a more robust college experience which contribute to increased career opportunities.

Go to information about all available majors, minors, and certificates in the College of Business.

Academic content in business majors includes courses in four major categories:

- General Education (41 credit hours)
- Business Core (39 credit hours)
- Major Field of Specialization (27 credit hours)
- Guided Electives (13 hours)

Total Required for Graduation: 120

Notes:

- Elective courses are to be selected in consultation with the academic advisor.
- MATH 1000 Transitional Algebra and UNIV 1010 College Reading Improvement do not count as credit toward any Business degree, including as Elective.
- Business students may not take business courses on a pass/fail basis.
- Business students must complete at least 50% of the upper-division hours required in the major field of specialization at Tennessee Tech University.
- Business students must earn at least 50% of the business hours required for the degree at Tennessee Tech University.

COB Retention Policy

Any student majoring in the College of Business must have a cumulative QPA of at least 2.0 upon reaching junior status (60 hours) to be eligible to enroll in upper-division (3000- and 4000-level) courses.

A student who does not meet these requirements must make a reasonable effort, in consultation with the advisor, to repeat 1000- and 2000-level courses as soon as the courses are next offered to bring the QPA to a 2.0.

Having met these requirements, the student must maintain at least a 2.0 overall average, as well as a cumulative 2.0 in all business courses.

All repetition of courses shall be in accordance with the university policy governing course repetition as described in this Catalog.

Diversity Program

The College of Business administers a diversity scholarship endowment designed to encourage individuals of diverse backgrounds to enter the College and pursue careers in business.

Advisement and Student Support

The College of Business Student Success Center provides academic support for business majors through academic advising services, tutoring, at-risk student support, and graduation planning.

Go to information for College of Business Student Success Center.

B.S. in International Business and Cultures

This joint-degree program, shared by the College of Business and the College of Arts and Sciences, is designed to prepare American and international students for the arena of international relations and trade. Track 1, designed for American students, emphasizes competence in basic and international business, a high level of proficiency in foreign languages, and solidly grounded knowledge of foreign cultures and the world business community. Track 2, designed for international students, offers specialized concentrations in American studies and aspects of American and international business cultures. The capstone course for both Tracks 1 and 2 is a domestic or international internship (IBC 4980). Track 1 students may also choose to spend a semester or year studying abroad in order to improve their foreign language proficiency and deepen their knowledge of foreign cultures.

Graduate Studies and Fast Track in Business

The College of Business Student Success Center provides academic support for business majors through academic advising services, tutoring, at-risk student support, and graduation planning.

Go to information for College of Business Student Success Center.

Student Success Center

Julie Galloway, Director/Advisor
Advisors: Melissa Creek, Rebecca Leimer
Program Manager: Amy Jo Carpenter

Mission Statement: To support, guide, and empower students for academic and social success in their college, professional and life experiences.

All students entering into the College of Business must declare a major. Students in their first years of study all take the Basic Business curriculum. Students in the Basis Business curriculum, regardless of major, receive support services through the College of Business Student Success Center. The Center offers academic advising to students taking the Basic Business curriculum students to ensure that preparation for upper-division students is both thorough and properly sequenced. Freshmen who begin their studies at TTU, as well as those students who transfer to the College from other majors or from other schools, are advised by the Center.

The Center also offers workshops, seminars, and special events through the Student to Career program. The purpose of the Student to Career program is to provide programming that enhances the academic and social elements of our student's college experiences as they transition from business student to business professional. Students participate in resume and interview workshops, dining etiquette training, and special events including career fairs.

The Basic Business curriculum is structured as two-years of full-time study and is the required foundation curriculum for all business majors. Transfer credits are evaluated and applied as appropriate.

Once students satisfactorily complete the Basic Business curriculum the may affiliate with an upper division major. Students must complete at least 60 semester hours, including mathematics, English, science, history, humanities, communications and all required sophomore-level business courses, with at least a 2.0 quality point average (QPA). While students declare a major upon enrollment at TTU, students will also have to apply for affiliation with the upper-division major through the COB Student Success Center in order to enroll in the upper-division business courses associated with their major.

All students must complete the Basic Business curriculum before enrolling in upper-division business courses. If transfer students have the necessary credits and QPA, as evaluated through their transcripts, they may take the upper-division business classes associated with their major immediately.

Center for Global Experiences Department

Dr. Amy Miller

Dr. Amy Miller, Assistant Director, oversees all global experience programs at Tennessee Tech University. She is currently serving as the Chair of TAIE, Advisory Board member of the Magellan Exchange, and Treasurer of the International Friends host family program. She has also developed new exchange agreements with universities abroad, written policies and procedures regarding all study abroad activities and has published various articles. Prior to joining the Provost's Office, Dr. Miller was a Spanish Interpreter in the region. She has traveled to many countries, worked and lived abroad and has served as an advocate for all racially and ethnically diverse populations. Dr. Miller holds an M.A. from Tennessee Tech University and an Ed.D. from Union University.

Phone: 931-372-3659
Email: studyabroad@tntech.edu

Derryberry Hall Room 434
1 William L Jones Drive
Campus Box 5163
Cookeville, TN 38505

Courses

Course Information

Course Title
ISEP Program

Academic Level (Course Level)
Undergraduate

Course Subject Code
SA

Course Number
2010

Credit Hours

Credit Hours:
12

Other Hours

Min:
12

Course Description
Study at an institution abroad as part of the International Student Exchange Program. [Credit may be earned as part of the curriculum in your major. See advisor for approval of courses which apply to curriculum prior to the exchange.]

College/School
Independent Programs

Course Information

Course Title
ISEP Program

Academic Level (Course Level)
Undergraduate

Course Subject Code
SA

Course Number
2020

Credit Hours

Credit Hours:
12

Other Hours

Min:
12

Repeatable for Credit:
Yes

Course Description
Study at an institution abroad as part of the International Student Exchange Program. [Credit may be earned as part of the curriculum in your major. See advisor for approval of courses which apply to curriculum prior to the exchange.]

College/School
Independent Programs

Course Information

Course Title
Magellan Exchange Program

Academic Level (Course Level)
Undergraduate

Course Subject Code
SA

Course Number
2110

Credit Hours

Credit Hours:
0

Credit Hours:
12

Other Hours

Min:
0

Max:
12

Operator:
TO

Course Description
Study at an institution abroad as part of the Magellan Exchange Program. [Credit may be earned as part of the curriculum in your major. See advisor for approval of courses which apply to curriculum prior to the exchange.]

College/School
Independent Programs

Course Information

Course Title
Magellan Exchange Program

Academic Level (Course Level)
Undergraduate

Course Subject Code
SA

Course Number
2120

Credit Hours

Credit Hours:
0

Credit Hours:
12

Other Hours

Min:
0

Max:
12

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Study at an institution abroad as part of the Magellan Exchange Program. [Credit may be earned as part of the curriculum in your major. See advisor for approval of courses which apply to curriculum prior to the exchange.]

College/School
Independent Programs

Course Information

Course Title
Magellan Exchange Program

Academic Level (Course Level)
Undergraduate

Course Subject Code
SA

Course Number
2130

Credit Hours

Credit Hours:
0

Other Hours

Min:
0

Repeatable for Credit:
Yes

Course Description
Study at an institution abroad as part of the Magellan Exchange Program. [Credit may be earned as part of the curriculum in your major. See advisor for approval of courses which apply to curriculum prior to the exchange.]

College/School
Independent Programs

Course Information

Course Title
Direct Placement

Academic Level (Course Level)
Undergraduate

Course Subject Code
SA

Course Number
2210

Credit Hours

Credit Hours:
0

Credit Hours:
12

Other Hours

Min:
0

Max:
12

Operator:
TO

Repeatable for Credit:
Yes

Course Description
An exchange for study abroad that is not a part of the affiliated program. [Credit may be earned as part of the curriculum in your major. See advisor for approval of courses which apply to curriculum prior to the exchange. A contract will be signed for those if Financial Aid is involved.]

College/School
Independent Programs

Course Information

Course Title
Non-Affiliate Exchange

Academic Level (Course Level)
Undergraduate

Course Subject Code
SA

Course Number
2220

Credit Hours

Credit Hours:
0

Credit Hours:
12

Other Hours

Min:
0

Max:
12

Operator:
TO

Repeatable for Credit:
Yes

Course Description
An exchange for study abroad that is not a part of the affiliated program. [Credit may be earned as part of the curriculum in your major. See advisor for approval of courses which apply to curriculum prior to the exchange. A contract will be signed for those if Financial Aid is involved.]

College/School
Independent Programs

Course Information

Course Title
Non-Affiliate Exchange

Academic Level (Course Level)
Undergraduate

Course Subject Code
SA

Course Number
2230

Credit Hours

Credit Hours:
0

Other Hours

Min:
0

Repeatable for Credit:
Yes

Course Description
An exchange for study abroad that is not a part of the affiliated program. [Credit may be earned as part of the curriculum in your major. See advisor for approval of courses which apply to curriculum prior to the exchange. A contract will be signed for those if Financial Aid is involved.]

College/School
Independent Programs

Course Information

Course Title
TTU-Brazil Exchange Pgm

Academic Level (Course Level)
Undergraduate

Course Subject Code
SA

Course Number
2330

Credit Hours

Credit Hours:
0

Other Hours

Min:
0

Repeatable for Credit:
Yes

Course Description
Study at a partner institution in Brazil as part of the TTU-Brazil Program. [Credit may be earned as part of the curriculum in your major. See advisor for approval of courses which apply to curriculum prior to the exchange.]

College/School
Independent Programs

Course Information

Course Title
Adv/Globl Awrns:Exp Cult Sens

Academic Level (Course Level)
Undergraduate

Course Subject Code
SA

Course Number
4700

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Adv/Globl Awrns:Exp Cult Sens

College/School
Independent Programs

Course Information

Course Title
Mid-Continent Consortium

Academic Level (Course Level)
Undergraduate

Course Subject Code
SA

Course Number
2410

Credit Hours

Credit Hours:
0

Other Hours

Min:
0

Repeatable for Credit:
Yes

Course Description
non-affiliate exchange

College/School
Independent Programs

Chemistry Department

Professor Boles Chairperson; Professors J. Carrick, Lisic, Zhang; Associate Professors W. Carroll, Crouse, Gichuhi, Jiang, Rezsnyak, Swartling, Zhan; Assistant Professors Callender, Dan, Gurusinghe, Murphy; Senior Instructors A.M. Carrick, Coonce, Instructor Rust; Senior Lecturer A. Carroll; Lecturer Cashman, Majors; Instructors Cojocaru, Moldenhauer.

Within the major in Chemistry, the Department of Chemistry offers three concentrations leading to a Bachelor of Science Degree:

1. The Pure Chemistry concentration is intended to prepare students for both graduate school and a career as a professional chemist. This concentration exceeds the requirements for certification by the American Chemical Society.

2. The Biochemistry concentration is intended to serve students interested in professional school, including those who have declared a Career Track, and those who wish to pursue graduate work at the chemistry-biology interface.

3. Environmental Chemistry concentration - Chemistry plays a central role in all environmental issues. No student can be considered prepared to contribute to this field without a solid background in chemistry. This option incorporates a significant amount of supporting coursework in contributing sciences, such as biology, agriculture, and geology.

4. Forensic Chemistry concentration - Forensic science is an interdisciplinary field incorporating aspects of chemistry, biology, and physics. While it is certainly an area of current popular interest, it has long been a career pathway for chemistry graduates, whose curriculum fits these demands particularly well. This option combines the essential elements of chemistry with supporting coursework in biology and criminal justice.

5. Health Science Chemistry concentration - This option provides a four-year content degree in chemistry for students who are interested in professional school in a health sciences field, particularly students who are in the Career Tracks of medicine, dentistry, pharmacy, optometry, physician assistant and other related health career track programs. Supporting coursework in biology is chosen from those courses required or encouraged by professional schools.

6. Business Chemistry concentration - This option is intended for those who are more interested in the business side of the chemical industry or in a management career in a technical industry. The non-chemistry component of this option includes most, if not all, of the coursework necessary to obtain a minor in business or enter the Fast-Track MBA program offered by the TTU College of Business.

7. Industrial Chemistry concentration - This option is intended for students who wish to pursue a technical career in a chemistry-related industry. Many companies seek employees with a chemical background but do not need the rigorous training found in the ACS Chemistry concentration. An integral part of this program is a minimum of one year of cooperative employment experience

8. Custom Chemistry concentration – This program allows for the creation of a program of study outside of the fixed alternatives above. With the aid of the advisor, the study can create a personalized chemistry curriculum, suitable to their career goals.

A.C.S. Certification

A student in any chemistry concentration may attain certification by the American Chemical Society as determined by the Chemistry faculty. The Chemistry Department defines specific areas of certification including, but not restricted to, pure chemistry, biochemistry and environmental chemistry. The requirements for certification in these areas are outside the curricular

requirements of the three major concentrations. To attain ACS-certification within one of the following concentrations, a student must complete the following minimum requirements: 1. The student must take MATH 1920. 2. The student must take CHEM 2010, CHEM 2910, CHEM 3510, CHEM 4210 (5210), CHEM 4520 (5520), CHEM 4610 (5610) and CHEM 4991. CHEM 3510 and CHEM 4520 (5520) may be substituted for CHEM 3500 and CHEM 3420, respectively, in curricula where the lower courses are required. 3. The student must take a minimum of two advanced courses chosen from: CHEM 3520, CHEM 4110 (5110), CHEM 4150 (5150), CHEM 4310 (5310), CHEM 4320 (5320), CHEM 4410 (5410), CHEM 4620 (5620), CHEM 4650 (5650), CHEM 4710 (5710), CHEM 4720 (5720).

4. The advanced courses above must include a minimum of three credit hours of laboratory including either CHEM 4150 (5150) or CHEM 4650 (5650).

5. Requirements for specific areas of certification can be obtained from the Chemistry Advisor.

Programs

CHEM-ACCH - Chemistry, Custom Chemistry Concentration, B.S.

Program Overview

Program Long Title
Chemistry, Custom Chemistry Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Chemistry

Requirements

Simple Requirements

Chemistry, Custom Chemistry Concentration (120 hours)

Type
Completion Requirement

General Education Core - Communication (9 hours)

Earn at least 9 credits from the following:
- Communication (GEDC) - Writing
  AND Communication (GEDC) - Oral Communication

General Education Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Courses:
- MATH1910 - Calculus I

General Education Core - Historical Foundations (6 hours)

Earn at least 6 credits from the following:
- Untitled Course set

General Education Core - Financial and Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

General Education Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

General Education Core - Social and Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

General Education Core - Scientific Reasoning (8 hours)

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II

Chemistry, Custom Chemistry Concentration Core

Complete ALL of the following Courses:
- CHEM1500 - 1st-Yr Interactions/Advisement
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM2010 - Intro to Inorganic Chemistry
- CHEM3410 - Quantitative Analysis
- CHEM3420 - Analytical Applications
- CHEM3010 - Organic Chemistry I
- CHEM3020 - Organic Chemistry II
- CHEM3500 - Elements/Physical Chemistry
- CHEM4920 - Chemistry Seminar

Chemistry, Custom Chemistry Concentration Core

Advanced Chemistry Electives - 9 hours required
Students will take 9 hours of advanced chemistry from: CHEM 3520, CHEM 4110, CHEM 4150, CHEM 4210, CHEM 4310, CHEM 4320, CHEM 4410, CHEM 4520, CHEM 4610, CHEM 4620, CHEM 4650, CHEM 4710, CHEM 4720, CHEM 4980, CHEM 4991, CHEM 4992, CHEM 4993, or advisor approved. (Total of CHEM 4991/4992/4993 cannot exceed more than 4 combined hours)

Additional Program Requirements

Complete ALL of the following Courses:
- PHYS2010 - Algebra-based Physics I
  OR PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2020 - Algebra-based Physics II
  OR PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- MATH1910 - Calculus I

Technical Requirements (Advisor Approved)

Technical Electives (14 hours)
Students will take a minimum of 14 hours of Technical Requirements approved by the advisor.

Elective Credits

Electives (10-11 hours)
Additional free electives are needed to complete the required 120 earned hours.

BIOL/MATH Electives (11-12 hours)

Complete course(s) and earn 11 - 12 credits from the following:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- MATH1530 - Introductory Statistics
- MATH1920 - Calculus II
- MATH2010 - Introduction to Linear Algebra
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3070 - Statistical Methods I
- MATH3080 - Statistical Methods II

Additional Comments:
This curriculum allows the student to create a unique program, within chemistry, oriented to their personal career goals.

Degree Map

Degree Map Name
Degree Plan - Chemistry, Custom Chemistry Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- CHEM1500 - 1st-Yr Interactions/Advisement

Actual Credits 1

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	14

Requirement Select
- CHEM2010 - Intro to Inorganic Chemistry

Actual Credits 3

Requirement Select
- CHEM3410 - Quantitative Analysis

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- CHEM3420 - Analytical Applications

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II
  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	13

Requirement Select
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- Technical Requirement
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- CHEM3020 - Organic Chemistry II

Actual Credits 4

Requirement Select
- CHEM3500 - Elements/Physical Chemistry

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- Technical Requirement
  (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	First Semester	17

Requirement Select
- Advanced CHEM Course
  (Generic)

Actual Credits 3

Requirement Select
- CHEM4920 - Chemistry Seminar

Actual Credits 3

Requirement Select
- Electives (8 cr.)
  (Generic)

Actual Credits 8

Requirement Select
- Technical Requirement
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	16

Requirement Select
- Advanced CHEM Courses
  (Generic)

Actual Credits 6

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Technical Requirement
  (Generic)

Actual Credits 4

Requirement Select
- * This curriculum allows the student to create a unique program, within chemistry, oriented to their personal career goals.
  (Generic)

Actual Credits -

Requirement Select
- Technical Electives - Students will take a minimum of 14 hours of Technical Requirements approved by the advisor.
  (Generic)

Actual Credits -

Requirement Select
- Advanced Chemistry Courses: CHEM 3520, CHEM 4110, CHEM 4150, CHEM 4210, CHEM 4310, CHEM 4320, CHEM 4410, CHEM 4520, CHEM 4610, CHEM 4620, CHEM 4650, CHEM 4710, CHEM 4720, CHEM 4980, CHEM 4991, CHEM 4992, CHEM 4993 (Total of CHEM 4991/4992/4993 cannot exceed more than 4 combined hours)
  (Generic)

Actual Credits -

Requirement Select
- BIOL/MATH Electives (11-12 hours): Choose from: BIOL 1113, BIOL 1123, MATH 1530, MATH 2010, MATH 1920, MATH 2110, MATH 2120, MATH 3070, MATH 3080
  (Generic)

Actual Credits -

CHEM-ACHB - Chemistry, Business Chemistry Concentration, B.S.

Program Overview

Program Long Title
Chemistry, Business Chemistry Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Chemistry

Requirements

Simple Requirements

Chemistry, Business Chemistry Concentration (120 hours)

Type
Completion Requirement

General Education Core - Communication (9 hours)

Two courses (6 hours) in composition from composition general education offerings

One course (3 hours) in oral communication from oral communication general education offerings

Earn at least 9 credits from the following:
- Communication (GEDC) - Writing
  AND Communication (GEDC) - Oral Communication

General Education Core - Quantitative Reasoning and Analysis (3 hours)

Complete ALL of the following Courses:
- MATH1910 - Calculus I

General Education Core - Historical Foundations (6 hours)

Earn at least 6 credits from the following:
- Untitled Course set

General Education Core - Financial and Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

General Education Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

General Education Core - Social and Behavioral Science (6 hours)

Complete ALL of the following Courses:
- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics

General Education Core - Scientific Reasoning (8 hours)

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II

Chemistry, Business Chemistry Concentration Core

Complete ALL of the following Courses:
- CHEM1500 - 1st-Yr Interactions/Advisement
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM2010 - Intro to Inorganic Chemistry
- CHEM3010 - Organic Chemistry I
- CHEM3020 - Organic Chemistry II
- CHEM3410 - Quantitative Analysis
- CHEM3420 - Analytical Applications
- CHEM3500 - Elements/Physical Chemistry
- CHEM4920 - Chemistry Seminar

Chemistry, Business Chemistry Concentration Core

Advanced Chemistry Electives - 9 hours required
Students will take 9 hours of advanced chemistry from: CHEM 3520, CHEM 4110, CHEM 4150, CHEM 4210, CHEM 4310, CHEM 4320, CHEM 4410, CHEM 4520, CHEM 4610, CHEM 4620, CHEM 4650, CHEM 4710, CHEM 4720, CHEM 4980, CHEM 4991, CHEM 4992, CHEM 4993, or advisor approved. (Total of CHEM 4991/4992/4993 cannot exceed more than 4 combined hours)

Additional Program Requirements

Complete ALL of the following Courses:
- ACCT3720 - Survey of Accounting
- BMGT3510 - Mgmt/Organizational Behavior
- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- FIN3210 - Principles/Managerial Fin
- MKT3400 - Principles of Marketing
- PHYS2010 - Algebra-based Physics I
  OR PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2020 - Algebra-based Physics II
  OR PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- MATH1910 - Calculus I
- LAW2810 - Business Legal Env & Ethics
  OR DS3620 - Bus Anyltcs:Data Drv Dec Makng

Note:

Students will take 15 hours of Technical Requirements including ACCT 3720, BMGT 3510, FIN 3210 and MKT 3400 plus 3 additional hours chosen from DS 3620 or LAW 2810 or Advisor approved. Alternative courses may be taken with advisor approval. These requirements, plus ECON 2010/2020 should meet the requirements for a Business Minor. If desired the student may also pursue credit towards a FastTrack MBA. This can be done by replacing 6 hours of the above with courses chosen from ACCT 6010, ECON 6020, FIN 6020 or MKT 6100 (when taken for undergraduate credit). These courses can subsequently be applied as graduate credit in the FTMBA program.

Elective Credits

Electives (9-10 hours)
Additional free electives are needed to complete the required 120 earned hours.

BIOL/MATH Electives

Complete course(s) and earn 11 - 12 credits from the following:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- MATH1530 - Introductory Statistics
- MATH1920 - Calculus II
- MATH2010 - Introduction to Linear Algebra
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3070 - Statistical Methods I

- MATH3080 - Statistical Methods II

Degree Map

Degree Map Name
Degree Plan - Chemistry, Business Chemistry Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- CHEM1500 - 1st-Yr Interactions/Advisement

Actual Credits 1

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CHEM2010 - Intro to Inorganic Chemistry

Actual Credits 3

Requirement Select
- CHEM3410 - Quantitative Analysis

Actual Credits 4

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- CHEM/Business Chemistry Technical Requirement

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- CHEM3420 - Analytical Applications

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II
  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	13

Requirement Select
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- CHEM/Business Chemistry Technical Requirement

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	13

Requirement Select
- CHEM3020 - Organic Chemistry II

Actual Credits 4

Requirement Select
- CHEM3500 - Elements/Physical Chemistry

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- CHEM/Business Chemistry Technical Requirement

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- CHEM/Business Chemistry Technical Requirement

Actual Credits 3

Requirement Select
- CHEM4920 - Chemistry Seminar

Actual Credits 3

Requirement Select
- Electives (5 cr.)
  (Generic)

Actual Credits 5

Requirement Select
- Advanced CHEM Course
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	17

Requirement Select
- Advanced CHEM Courses
  (Generic)

Actual Credits 6

Requirement Select
- Electives (5 cr.)
  (Generic)

Actual Credits 5

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- CHEM/Business Chemistry Technical Requirement

Actual Credits 3

Requirement Select
- Advanced Chemistry Courses: CHEM 3520, CHEM 4110, CHEM 4150, CHEM 4210, CHEM 4310, CHEM 4320, CHEM 4410, CHEM 4520, CHEM 4610, CHEM 4620, CHEM 4650, CHEM 4710, CHEM 4720, CHEM 4980, CHEM 4991, CHEM 4992, CHEM 4993 (Total of CHEM 4991/4992/4993 cannot exceed more than 4 combined hours)
  (Generic)

Actual Credits -

Requirement Select
- Technical Electives: ACCT 3720, BMGT 3510, FIN 3210, MKT 3400, and DS 3620 or LAW 2810, or Advisor approved.
  (Generic)

Actual Credits -

Requirement Select

- BIOL/MATH Electives (11-12 hours): Choose from: BIOL 1113, BIOL 1123, MATH 1530, MATH 2010, MATH 1920, MATH 2110, MATH 2120, MATH 3070, MATH 3080 (Generic)

Actual Credits -

CHEM-ACHF - Chemistry, Forensic Chemistry Concentration, B.S.

Program Overview

Program Long Title

Chemistry, Forensic Chemistry Concentration, B.S.

College/School

Arts and Sciences

Department(s)

Chemistry

Requirements

Simple Requirements

Chemistry, Forensic Chemistry Concentration (120 hours)

Type
Completion Requirement

General Education Core - Communication (9 hours)

Two courses (6 hours) in composition from general education offerings.

One course (3 hours) in oral communication from general education offerings.

Earn at least 9 credits from the following:

- Communication (GEDC) - Writing
  AND Communication (GEDC) - Oral Communication

General Education Core - Quantitative Reasoning and Analysis (3 hours)

Complete ALL of the following Courses:

- MATH1910 - Calculus I

General Education Core - Historical Foundations (6 hours)

Earn at least 6 credits from the following:

- Untitled Course set

General Education Core - Financial and Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

General Education Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

General Education Core - Social and Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

General Education Core - Scientific Reasoning (8 hours)

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II

Chemistry, Forensic Chemistry Concentration Core

Complete ALL of the following Courses:

- CHEM1500 - 1st-Yr Interactions/Advisement
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM2010 - Intro to Inorganic Chemistry

- CHEM3010 - Organic Chemistry I
- CHEM3020 - Organic Chemistry II
- CHEM3410 - Quantitative Analysis
- CHEM3500 - Elements/Physical Chemistry
- CHEM4410 - Forensic Chemistry
- CHEM4520 - Instrumental Analysis
- CHEM4610 - General Biochemistry I
- CHEM4650 - General Biochemistry Lab
- CHEM4920 - Chemistry Seminar

Additional Program Requirements

Complete ALL of the following Courses:

- BIOL3810 - General Genetics
- BIOL4150 - Molecular Genetics
- CJ2660 - Criminology
- CJ4250 - Drugs/Behavioral Pharmacology
- BIOL3330 - Entomology
  OR CJ3640 - Cybercrime
- PHYS2010 - Algebra-based Physics I
  OR PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2020 - Algebra-based Physics II
  OR PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- MATH1910 - Calculus I

BIOL 3810, 4150, CJ 2660, 4250, and BIOL 3330/CJ 3620, or advisor approved

Elective Credits

Electives (8 hours)
Additional free electives are needed to complete the required 120 earned hours.

BIOL/MATH Electives

Complete course(s) and earn 11 - 12 credits from the following:

- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- MATH1530 - Introductory Statistics
- MATH1920 - Calculus II
- MATH2010 - Introduction to Linear Algebra
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3070 - Statistical Methods I
- MATH3080 - Statistical Methods II

Degree Map

Degree Map Name
Degree Plan - Chemistry, Forensic Chemistry Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- CHEM1500 - 1st-Yr Interactions/Advisement

Actual Credits 1

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select
- CHEM2010 - Intro to Inorganic Chemistry

Actual Credits 3

Requirement Select
- CHEM3410 - Quantitative Analysis

Actual Credits 4

Requirement Select
- PHYS2010 - Algebra-based Physics I
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- CHEM3500 - Elements/Physical Chemistry

Actual Credits 3

Requirement Select
- CJ2660 - Criminology

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- BIOL/MATH Elective
  (Generic)

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II
  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	14

Requirement Select
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- CHEM4520 - Instrumental Analysis

Actual Credits 4

Requirement Select
- CJ4250 - Drugs/Behavioral Pharmacology

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	13

Requirement Select
- BIOL4150 - Molecular Genetics

Actual Credits 3

Requirement Select
- CHEM3020 - Organic Chemistry II

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- CHEM4610 - General Biochemistry I

Actual Credits 3

Requirement Select
- CHEM4920 - Chemistry Seminar

Actual Credits 3

Requirement Select
- Electives (5 cr.)
  (Generic)

Actual Credits 5

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- BIOL3330 - Entomology
  OR
- CJ3640 - Cybercrime

Actual Credits 3

Requirement Select
- CHEM4410 - Forensic Chemistry

Actual Credits 4

Requirement Select
- CHEM4650 - General Biochemistry Lab

Actual Credits 2

Requirement Select
- Electives (3 cr)
  (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- BIOL/MATH Electives (11-12 hours): Choose from: BIOL 1113, BIOL 1123, MATH 1530, MATH 2010, MATH 1920, MATH 2110, MATH 2120, MATH 3070, MATH 3080 (Generic)

Actual Credits -

CHEM-AECH - Chemistry, Environmental Chemistry Concentration, B.S.

Program Overview

Program Long Title
Chemistry, Environmental Chemistry Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Chemistry

Requirements

Simple Requirements

Chemistry, Environmental Chemistry Concentration (120 hours)

Type
Completion Requirement

General Education Core - Communication (9 hours)

Two courses (6 hours) of composition from the general education offerings.

One course (3 hours) of oral communication from the general education offerings.

Earn at least 9 credits from the following:
- Communication (GEDC) - Writing
  AND Communication (GEDC) - Oral Communication

General Education Core - Quantitative Reasoning and Analysis (3 hours)

Complete ALL of the following Courses:
- MATH1910 - Calculus I

General Education Core - Historical Foundations (6 hours)

Earn at least 6 credits from the following:
- Untitled Course set

General Education Core - Financial and Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

General Education Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

General Education Core - Social and Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

General Education Core - Scientific Reasoning (8 hours)

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II

Chemistry, Environmental Chemistry Concentration Core

Complete ALL of the following Courses:
- CHEM1500 - 1st-Yr Interactions/Advisement
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM2010 - Intro to Inorganic Chemistry

- CHEM3010 - Organic Chemistry I
- CHEM3020 - Organic Chemistry II
- CHEM3410 - Quantitative Analysis
- CHEM3500 - Elements/Physical Chemistry
- CHEM4520 - Instrumental Analysis
- CHEM4710 - Environmental Chemistry
- CHEM4720 - Adv Environmental Chemistry
- CHEM4920 - Chemistry Seminar

Chemistry, Custom Chemistry Concentration Core

Advanced Chemistry Electives - 3 hours required
Choose from CHEM 3520, CHEM 4110, CHEM 4150, CHEM 4210, CHEM 4310 (5310), CHEM 4320 (5320), CHEM 4410 (5410), CHEM 4520, CHEM 4610, CHEM 4620 (5620), CHEM 4650 (5650), CHEM 4710 (5710), CHEM 4720 (5720), CHEM 4980, CHEM 4991, CHEM 4992, CHEM 4993, or advisor approved. Total of CHEM 4991/4992/4993 cannot exceed four combined hours.

Additional Program Requirements

Complete ALL of the following Courses:

- BIOL3120 - General Ecology
- PHYS2010 - Algebra-based Physics I
  OR PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2020 - Algebra-based Physics II
  OR PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- MATH1910 - Calculus I

BIOL/MATH Electives (11-12 hours):

Choose from: BIOL 1113, BIOL 1123, MATH 1530, MATH 2010, MATH 1920, MATH 2110, MATH 2120, MATH 3070, MATH 3080

Technical Requirements (Advisor Approved)

Earn at least 12 credits from the following:

- AGRN3230 - Environmental Soil Science
- AGRN4220 - Environmental Soil Chem
- BIOL3200 - General Microbiology
  OR BIOL3230 - Health Science Microbiology
- BIOL4130 - Environmental Microbiology
- BIOL4840 - Limnology
- GEOG4510 - Theory of GIS I
- GEOL4300 - Envrnmntl Aqueous Geochemistry
- GEOL4711 - Hydrogeology

Students will take 12 hours of Technical Requirements chosen from AGRN 3230, AGRN 4220 (5220), BIOL 3200 or 3230, BIOL 4130 (5130), BIOL 4840 (5840), GEOG 4510 (5510), GEOL 4300 (5300), GEOL 4711 (5711), or advisor approved.

Elective Credits

Electives (9-10 hours)
Additional free electives are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Chemistry, Environmental Chemistry Concentration, B.S.
Total Degree Map Credits
120

Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- CHEM1500 - 1st-Yr Interactions/Advisement

Actual Credits 1

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- BIOL3120 - General Ecology

Actual Credits 3

Requirement Select
- CHEM2010 - Intro to Inorganic Chemistry

Actual Credits 3

Requirement Select
- CHEM3410 - Quantitative Analysis

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I

  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- CHEM3500 - Elements/Physical Chemistry

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 3

Requirement Select
- CHEM/Environmental Chemistry Technical Requirement

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II

  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	14

Requirement Select
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- CHEM4520 - Instrumental Analysis

Actual Credits 4

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- CHEM/Environmental Chemistry Technical Requirement

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	13

Requirement Select
- CHEM3020 - Organic Chemistry II

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- CHEM/Environmental Chemistry Technical Requirement

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- CHEM4710 - Environmental Chemistry

Actual Credits 3

Requirement Select
- CHEM4920 - Chemistry Seminar

Actual Credits 3

Requirement Select
- Electives (6 cr.) (Generic)

Actual Credits 6

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Advanced Chemistry Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- CHEM4720 - Adv Environmental Chemistry

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- CHEM/Environmental Chemistry Technical Requirement

Actual Credits 3

Requirement Select
- Advanced Chemistry Courses: CHEM 3520, CHEM 4110, CHEM 4150, CHEM 4210, CHEM 4310, CHEM 4320, CHEM 4410, CHEM 4610, CHEM 4620, CHEM 4650, CHEM 4980, CHEM 4991, CHEM 4992, CHEM 4993 (Total of CHEM 4991/4992/4993 cannot exceed more than 4 combined hours)
  (Generic)

Actual Credits -

Requirement Select
- Technical Electives - AGRN 3230, AGRN 4220/5220, BIOL 3200 or 3230, BIOL 4130/5130, BIOL 4840/5840, GEOG 4510/5510, GEOL 4300/5300, GEOL 4711/5711, or Advisor approved.
  (Generic)

Actual Credits -

Requirement Select
- BIOL/MATH Electives (11-12 hours): Choose from: BIOL 1113, BIOL 1123, MATH 1530, MATH 2010, MATH 1920, MATH 2110, MATH 2120, MATH 3070, MATH 3080
  (Generic)

Actual Credits -

CHEM-AHSC - Chemistry, Health Science Chemistry Concentration, B.S.

Program Overview

Program Long Title
Chemistry, Health Science Chemistry Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Chemistry

Requirements

Simple Requirements

Chemistry, Health Science Chemistry Concentration (120 hours)

Type
Completion Requirement

General Education Core - Communication (9 hours)

Two courses (6 hours) in composition from general education offerings.

One course (3 hours) in oral communication from general education offerings.

Earn at least 9 credits from the following:
- Communication (GEDC) - Writing
  AND Communication (GEDC) - Oral Communication

General Education Core - Quantitative Reasoning and Analysis (3 hours)

Complete ALL of the following Courses:
- MATH1910 - Calculus I

General Education Core - Historical Foundations (6 hours)

Earn at least 6 credits from the following:
- Untitled Course set

General Education Core - Financial and Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

General Education Core- Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

General Education Core - Social and Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

General Education Core - Scientific Reasoning (8 hours)

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II

Chemistry, Health Science Chemistry Concentration Core

Complete ALL of the following Courses:
- CHEM1500 - 1st-Yr Interactions/Advisement
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM2010 - Intro to Inorganic Chemistry

- CHEM3010 - Organic Chemistry I
- CHEM3020 - Organic Chemistry II
- CHEM3410 - Quantitative Analysis
- CHEM3420 - Analytical Applications
- CHEM3500 - Elements/Physical Chemistry
- CHEM4610 - General Biochemistry I
- CHEM4620 - General Biochemistry II
- CHEM4920 - Chemistry Seminar

Health Science Chemistry Concentration Core

Advanced Chemistry Elective - 3 hours
Students will take 3 hours of advanced chemistry from: CHEM 3520, CHEM 4110, CHEM 4150, CHEM 4210, CHEM 4310, CHEM 4320, CHEM 4410, CHEM 4520, CHEM 4650, CHEM 4710, CHEM 4720, CHEM 4980, CHEM 4991, CHEM 4992, CHEM 4993 (Total of CHEM 4991/4992/4993 cannot exceed more than 4 combined hours)

Additional Program Requirements

Complete ALL of the following Courses:

- BIOL2010 - Human Anatomy & Physiology I
- BIOL2020 - Human Anatomy & Physiology II
- BIOL3230 - Health Science Microbiology
- BIOL3810 - General Genetics
  OR BIOL4040 - Immunology
  OR BIOL4060 - Hormones & Chem Comm
  OR BIOL3140 - Cellular Biology
  OR BIOL4750 - Medical Microbiology
- PHYS2010 - Algebra-based Physics I
  OR PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2020 - Algebra-based Physics II
  OR PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- MATH1910 - Calculus I

Students will take 3-4 hours of Technical Requirements chosen from BIOL 3140, 3810, 4040, 4060, 4750, or advisor approved.

Elective Credits

Electives (9-10 hours)
Additional free electives are needed to complete the required 120 earned hours.

BIOL/MATH Electives

Complete course(s) and earn 11 - 12 credits from the following:

- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- MATH1530 - Introductory Statistics
- MATH1920 - Calculus II
- MATH2010 - Introduction to Linear Algebra
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3070 - Statistical Methods I
- MATH3080 - Statistical Methods II

Additional Comments:
Career Track students interested in Pharmacy and Medical Technology electing to receive a Bachelor of TENNESSEE TECHNOLOGICAL UNIVERSITY 107 Science Degree with a major in Chemistry from Tennessee Technological University may use the first year of coursework from an accredited professional school as their senior year after completing the first three years of this program as outlined above.

Degree Map

Degree Map Name
Degree Plan - Chemistry, Health Science Chemistry Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- BIOL/MATH Elective (4 cr.) (Generic)

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- CHEM1500 - 1st-Yr Interactions/Advisement

Actual Credits 1

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- CHEM2010 - Intro to Inorganic Chemistry

Actual Credits 3

Requirement Select
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- PHYS2010 - Algebra-based Physics I
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- BIOL2020 - Human Anatomy & Physiology II

Actual Credits 4

Requirement Select
- CHEM3020 - Organic Chemistry II

Actual Credits 4

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II
  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	14

Requirement Select
- BIOL3230 - Health Science Microbiology

Actual Credits 4

Requirement Select
- CHEM3410 - Quantitative Analysis

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- CHEM3420 - Analytical Applications

Actual Credits 3

Requirement Select
- CHEM3500 - Elements/Physical Chemistry

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- CHEM4610 - General Biochemistry I

Actual Credits 3

Requirement Select
- CHEM4920 - Chemistry Seminar

Actual Credits 3

Requirement Select

- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select

- CHEM/Health Science Chemistry Technical Requirement

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select

- Advanced Chemistry Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- CHEM4620 - General Biochemistry II

Actual Credits 3

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select

- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- Career Track students interested in Pharmacy and Medical Technology electing to receive a Bachelor of Science Degree with a major in Chemistry from Tennessee Technological University may use the first year of coursework from an accredited professional school as their senior year after completing the first three years of this program as outlined above.
  (Generic)

Actual Credits -

Requirement Select

- Advanced Chemistry Electives: CHEM 3520, CHEM 4110, CHEM 4150, CHEM 4210, CHEM 4310, CHEM 4320, CHEM 4410, CHEM 4520, CHEM 4650, CHEM 4710, CHEM 4720, CHEM 4980, CHEM 4991, CHEM 4992, CHEM 4993 (Total of CHEM 4991/4992/4993 cannot exceed more than 4 combined hours)
  (Generic)

Actual Credits -

Requirement Select

- Technical Electives: BIOL 3140, 3810, 4040, 4060, or 4750
  (Generic)

Actual Credits -

Requirement Select

- BIOL/MATH Electives (11-12 hours): Choose from: BIOL 1113, BIOL 1123, MATH 1530, MATH 2010, MATH 1920, MATH 2110, MATH 2120, MATH 3070, MATH 3080
  (Generic)

Actual Credits -

CHEM-AICH - Chemistry, Industrial Chemistry Concentration, B.S.

Program Overview

Program Long Title
Chemistry, Industrial Chemistry Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Chemistry

Requirements

Simple Requirements

Chemistry, Industrial Chemistry Concentration (120 hours)

Type
Completion Requirement

General Education Core - Communication (9 hours)

Two courses (6 hours) in composition from general education offerings.

One course (3 hours) in oral communication from general education offerings.

Earn at least 9 credits from the following:
- Communication (GEDC) - Writing
  AND Communication (GEDC) - Oral Communication

General Education Core - Quantitative Reasoning and Analysis (3 hours)

Complete ALL of the following Courses:
- MATH1910 - Calculus I

General Education Core - Historical Foundations (6 hours)

Earn at least 6 credits from the following:
- Untitled Course set

General Education Core - Financial and Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

General Education Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

General Education Core - Social and Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

General Education Core - Scientific Reasoning (8 hours)

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II

Chemistry, Industrial Chemistry Concentration Core

Complete ALL of the following Courses:
- CHEM1500 - 1st-Yr Interactions/Advisement
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM2010 - Intro to Inorganic Chemistry
- CHEM3010 - Organic Chemistry I
- CHEM3020 - Organic Chemistry II
- CHEM3410 - Quantitative Analysis
- CHEM3420 - Analytical Applications
- CHEM3500 - Elements/Physical Chemistry
- CHEM4920 - Chemistry Seminar

Additional Program Requirements

Complete ALL of the following Courses:
- COOP2010 - Cooperative Education
- COOP2020 - Cooperative Education
- COOP2030 - Cooperative Education
- PHYS2010 - Algebra-based Physics I
  OR PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2020 - Algebra-based Physics II
  OR PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- MATH1910 - Calculus I
- MET1100 - Intro to Mfg Engr Tech
- MET2000 - Occupational Safety
- MET2400 - Statics/Strengths of Materials
- PC3250 - Professional Comm I
- ACCT3720 - Survey of Accounting
  OR COOP4010 - Cooperative Education
  OR COOP4020 - Cooperative Education
  OR COOP4030 - Cooperative Education
  OR MET3100 - Applied Physical Metallurgy
  OR MET3740 - Six Sigma Tools

Students will take 2-3 hours of Technical Requirements chosen from ACCT 3720, COOP 4010, COOP 4020, COOP 4030, MET 3100 or MET 3740. Alternative technical requirements may be taken with advisor approval.

Elective Credits

Electives (9-10 hours)
Additional free electives are needed to complete the required 120 earned hours.

BIOL/MATH Electives

Complete course(s) and earn 11 - 12 credits from the following:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- MATH1530 - Introductory Statistics
- MATH1920 - Calculus II
- MATH2010 - Introduction to Linear Algebra
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3070 - Statistical Methods I
- MATH3080 - Statistical Methods II

Advanced Chemistry Courses

Choose 9 hours from: CHEM 3520, CHEM 4110, CHEM 4150, CHEM 4210, CHEM 4310, CHEM 4320, CHEM 4410, CHEM 4520, CHEM 4610, CHEM 4620, CHEM 4650, CHEM 4710, CHEM 4720, CHEM 4980, CHEM 4991, CHEM 4992, CHEM 4993 (Total of CHEM 4991/4992/4993 cannot exceed more than 4 combined hours)

Additional Comments:
After the Sophomore or Junior year, the student will take a full year of cooperative experience, working as a chemist in an industrial/manufacturing setting.

Degree Map

Degree Map Name
Degree Plan - Chemistry, Industrial Chemistry Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- CHEM1500 - 1st-Yr Interactions/Advisement

Actual Credits 1

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MET1100 - Intro to Mfg Engr Tech

Actual Credits 2

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CHEM2010 - Intro to Inorganic Chemistry

Actual Credits 3

Requirement Select
- CHEM3410 - Quantitative Analysis

Actual Credits 4

Requirement Select
- MET2400 - Statics/Strengths of Materials

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- CHEM3420 - Analytical Applications

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- BIOL/MATH Elective (Generic)

Actual Credits 3

Requirement Select
- MET2000 - Occupational Safety

Actual Credits 2

Requirement Select
- PHYS2020 - Algebra-based Physics II
  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	13

Requirement Select
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- Advanced Chemistry (Generic)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	13

Requirement Select
- CHEM3020 - Organic Chemistry II

Actual Credits 4

Requirement Select
- CHEM3500 - Elements/Physical Chemistry

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- PC3250 - Professional Comm I

Actual Credits 3

Year	Semester	Actual Credits
COOP Year	3 Semesters (Fall-Summer)	3

Requirement Select
- COOP2010 - Cooperative Education

Actual Credits 1

Requirement Select
- COOP2020 - Cooperative Education

Actual Credits 1

Requirement Select
- COOP2030 - Cooperative Education

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Advanced Chemistry Course (Generic)

Actual Credits 3

Requirement Select
- CHEM4920 - Chemistry Seminar

Actual Credits 3

Requirement Select
- Electives (6 cr.) (Generic)

Actual Credits 6

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- Electives (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- CHEM/Industrial Chemistry Technical Requiement

Actual Credits 3

Requirement Select
- Advanced Chemistry Course (Generic)

Actual Credits 3

Requirement Select

- After the Sophomore or Junior year, the student will take a full year of cooperative experience, working as a chemist in an industrial/manufacturing setting. 2 Students will take 2-3 hours of Technical Requirements chosen from ACCT 3720, COOP 4010, COOP 4020, COOP 4030, MET 3100 or MET 3740.
  (Generic)

Actual Credits -

Requirement Select

- Advanced Chemistry Courses: Choose 9 hours from: CHEM 3520, CHEM 4110, CHEM 4150, CHEM 4210, CHEM 4310, CHEM 4320, CHEM 4410, CHEM 4520, CHEM 4610, CHEM 4620, CHEM 4650, CHEM 4710, CHEM 4720, CHEM 4980, CHEM 4991, CHEM 4992, CHEM 4993 (Total of CHEM 4991/4992/4993 cannot exceed more than 4 combined hours)
  (Generic)

Actual Credits -

Requirement Select

- Technical Electives: ACCT 3720, COOP 4010, COOP 4020, COOP 4030, MET3100, MET 3740, or Advisor approved.
  (Generic)

Actual Credits -

Requirement Select

- BIOL/MATH Electives (11-12 hours): Choose from: BIOL 1113, BIOL 1123, MATH 1530, MATH 2010, MATH 1920, MATH 2110, MATH 2120, MATH 3070, MATH 3080
  (Generic)

Actual Credits -

CHEM-CHMP - Chemistry, Pure Chemistry Concentration, B.S.

Program Overview

Program Long Title

Chemistry, Pure Chemistry Concentration, B.S.

College/School

Arts and Sciences

Department(s)

Chemistry

Requirements

Simple Requirements

Chemistry, Pure Chemistry Concentration (120 hours)

Type
Completion Requirement

General Education Core - Communication (9 hours)

Two courses (6 hours) in composition from general education offerings.

One course (3 hours) in oral communication from general education offerings.

Earn at least 9 credits from the following:

- Communication (GEDC) - Writing
  AND Communication (GEDC) - Oral Communication

General Education Core - Quantitative Reasoning and Analysis (3 hours)

Complete ALL of the following Courses:

- MATH1910 - Calculus I

General Education Core - Historical Foundations (6 hours)

Earn at least 6 credits from the following:

- Untitled Course set

General Education Core - Financial and Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

General Education Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

General Education Core - Social and Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

General Education Core - Scientific Reasoning (8 hours)

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II

Chemistry, Pure Chemistry Concentration Core

Complete ALL of the following Courses:

- CHEM1500 - 1st-Yr Interactions/Advisement
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM2010 - Intro to Inorganic Chemistry

- CHEM2910 - Undergraduate Research Methods
- CHEM3410 - Quantitative Analysis
- CHEM3010 - Organic Chemistry I
- CHEM3020 - Organic Chemistry II
- CHEM3510 - Physical Chemistry I
- CHEM3520 - Physical Chemistry II
- CHEM4110 - Inorganic Chemistry
- CHEM4150 - Inorganic Chemistry Lab
- CHEM4210 - Chemistry of Polymers
- CHEM4520 - Instrumental Analysis
- CHEM4610 - General Biochemistry I
- CHEM4920 - Chemistry Seminar
- CHEM4991 - Undergraduate Research

Advanced Chemistry Electives (6 credits)

Choose from CHEM 3520, CHEM 4110, CHEM 4150, CHEM 4210, CHEM 4310 (5310), CHEM 4320 (5320), CHEM 4410 (5410), CHEM 4520, CHEM 4610, CHEM 4620 (5620), CHEM 4650 (5650), CHEM 4710 (5710), CHEM 4720 (5720), CHEM 4980, CHEM 4991, CHEM 4992, CHEM 4993, or advisor approved. Total of CHEM 4991/4992/4993 cannot exceed four combined hours.

Additional Program Requirements

Complete ALL of the following Courses:

- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2110 - Calculus III
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- MATH2010 - Introduction to Linear Algebra
  OR MATH2120 - Differential Equations
  OR MATH3070 - Statistical Methods I
  OR PHYS2920 - Mathematical Physics

MATH/PHYS Elective - Choose from MATH 2010, MATH 2120, MATH 3070 or PHYS 2920.

Elective Credits

Electives (10 hours)
Additional free electives are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Chemistry, Pure Chemistry Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- CHEM1500 - 1st-Yr Interactions/Advisement

Actual Credits 1

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- CHEM2010 - Intro to Inorganic Chemistry

Actual Credits 3

Requirement Select
- CHEM2910 - Undergraduate Research Methods

Actual Credits 1

Requirement Select
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- CHEM3020 - Organic Chemistry II

Actual Credits 4

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Requirement Select
- MATH2010 - Introduction to Linear Algebra
  OR
- MATH2120 - Differential Equations
  OR
- MATH3070 - Statistical Methods I
  OR
- PHYS2920 - Mathematical Physics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	14

Requirement Select
- CHEM3410 - Quantitative Analysis

Actual Credits 4

Requirement Select
- CHEM3510 - Physical Chemistry I

Actual Credits 4

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- CHEM3520 - Physical Chemistry II

Actual Credits 4

Requirement Select
- Electives (5 cr.)
  (Generic)

Actual Credits 5

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- CHEM4210 - Chemistry of Polymers

Actual Credits 3

Requirement Select
- CHEM4520 - Instrumental Analysis

Actual Credits 4

Requirement Select
- CHEM4610 - General Biochemistry I

Actual Credits 3

Requirement Select
- Elective
  (Generic)

Actual Credits 3

Requirement Select
- CHEM4920 - Chemistry Seminar

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- CHEM4110 - Inorganic Chemistry

Actual Credits 3

Requirement Select
- CHEM4150 - Inorganic Chemistry Lab

Actual Credits 1

Requirement Select

- CHEM4991 - Undergraduate Research

Actual Credits 1

Requirement Select

- CHEM/Pure Chemistry - CHEM Elective

Actual Credits 6

Requirement Select

- Electives (2 cr.)
  (Generic)

Actual Credits 2

Requirement Select

- Advanced Chemistry Electives: Choose from CHEM 3520, CHEM 4110, CHEM 4150, CHEM 4210, CHEM 4310 (5310), CHEM 4320 (5320), CHEM 4410 (5410), CHEM 4520, CHEM 4610, CHEM 4620 (5620), CHEM 4650 (5650), CHEM 4710 (5710), CHEM 4720 (5720), CHEM 4980, CHEM 4991, CHEM 4992, CHEM 4993, or advisor approved. Total of CHEM 4991/4992/4993 cannot exceed four combined hours.
  (Generic)

Actual Credits -

CHEM-MIN - Chemistry Minor

Program Overview

Program Long Title

Chemistry Minor

College/School

Arts and Sciences

Department(s)

Chemistry

Requirements

Simple Requirements

A minor in Chemistry will consist of 18-20 hours

Type
Completion Requirement

Core Courses

Complete ALL of the following Courses:

- CHEM3010 - Organic Chemistry I
- CHEM3020 - Organic Chemistry II
- CHEM3410 - Quantitative Analysis

The minimum average GPA in these courses must be 2.0.

Supplemental Courses

Complete at least 2 of the following courses:

- CHEM2010 - Intro to Inorganic Chemistry
- CHEM3500 - Elements/Physical Chemistry
- CHEM3510 - Physical Chemistry I
- CHEM3520 - Physical Chemistry II
- CHEM4520 - Instrumental Analysis
- CHEM4610 - General Biochemistry I
- CHEM4620 - General Biochemistry II
- CHEM4710 - Environmental Chemistry

The minimum average GPA in these courses must be 2.0.

CHMB-BS - Biochemistry, B.S.

Program Overview

Program Long Title
Biochemistry, B.S.

College/School
Arts and Sciences

Department(s)
Chemistry

Requirements

Simple Requirements

Biochemistry, B.S. (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Earn at least 9 credits from the following:
- Communication (GEDC) - Writing
  AND Communication (GEDC) - Oral Communication

2 composition classes (6 hours) from Communication Gen Ed offerings

1 oral communication class (3 hours) from Communication Gen Ed offerings

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ALL of the following Courses:
- MATH1910 - Calculus I

Flight Foundation Core - Historical Foundations (6 hours)

Earn at least 6 credits from the following:
- Historical Foundations (FFHF)

Flight Foundation Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social and Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Complete ALL of the following Course Sets:
- Scientific Reasoning (FFSR)

This major satisfies this requirement with CHEM 1110 and CHEM 1120.

Biochemistry Core

Complete ALL of the following Courses:
- CHEM1500 - 1st-Yr Interactions/Advisement
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM3410 - Quantitative Analysis
- CHEM3420 - Analytical Applications
- CHEM3010 - Organic Chemistry I
- CHEM3020 - Organic Chemistry II
- CHEM3500 - Elements/Physical Chemistry
- CHEM4610 - General Biochemistry I
- CHEM4620 - General Biochemistry II
- CHEM4650 - General Biochemistry Lab
- CHEM4920 - Chemistry Seminar

Additional Program Requirements

Complete ALL of the following Courses:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL3140 - Cellular Biology
- BIOL3230 - Health Science Microbiology
- BIOL3140 - Cellular Biology
- BIOL3810 - General Genetics
- BIOL4150 - Molecular Genetics
- BIOL4040 - Immunology
  OR BIOL4060 - Hormones & Chem Comm
- PHYS2010 - Algebra-based Physics I
  OR PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2020 - Algebra-based Physics II
  OR PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- MATH1910 - Calculus I
- MATH3070 - Statistical Methods I

Elective Credits

Electives (11 hours)
Additional free electives are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Biochemistry, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- CHEM1500 - 1st-Yr Interactions/Advisement

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- Communication (GEDC) - Writing

Actual Credits 3

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- CHEM3410 - Quantitative Analysis

Actual Credits 4

Requirement Select
- BIOL3230 - Health Science Microbiology

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- CHEM3420 - Analytical Applications

Actual Credits 3

Requirement Select
- BIOL3140 - Cellular Biology

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II
  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	14

Requirement Select
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- CHEM3020 - Organic Chemistry II

Actual Credits 4

Requirement Select
- CHEM3500 - Elements/Physical Chemistry

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- CHEM4610 - General Biochemistry I

Actual Credits 3

Requirement Select
- CHEM4920 - Chemistry Seminar

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- Electives (7 cr.)
  (Generic)

Actual Credits 7

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- CHEM4620 - General Biochemistry II

Actual Credits 3

Requirement Select
- CHEM4650 - General Biochemistry Lab

Actual Credits 2

Requirement Select
- BIOL4150 - Molecular Genetics

Actual Credits 3

Requirement Select
- Electives (4 cr.)
  (Generic)

Actual Credits 4

Requirement Select
- BIOL4040 - Immunology
  OR
- BIOL4060 - Hormones & Chem Comm

Actual Credits 3

Courses

Course Information

Course Title
Chemistry Problem Solving

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An introductory course for students without sufficient high school background in chemistry. Topics include metric system, atomic structure, bonding, stoichiometry, solutions, and some descriptive chemistry. Not degree credit as Chemistry course. May be used for elective credit in some programs. Students may not register for this course if they have credit for any other college chemistry course. May not be taken concurrently with any chemistry course, excluding CHEM 1500.

College/School
Arts and Sciences

Course Information

Course Title
Introductory Chemistry I

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1010

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisites: CHEM 1010 is prerequisite to 1020. Overview of chemical principles and applications. Laboratories emphasize general principles of chemistry.Meets Tennessee Technological University general education requirement (Natural Sciences). Chemistry majors may not earn credit in both CHEM 1010 and 1110 or both 1020 and 1120. Credit will not be given for both CHEM 1210, 1310 and any of the above courses.

College/School
Arts and Sciences

Course Information

Course Title
Introductory Chemistry II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1020

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CHEM 1010. Overview of chemical principles and applications. Laboratories emphasize general principles of Chemistry.Chemistry majors may not earn credit in both CHEM 1010 and 1110 or both 1020 and 1120. Credit will not be given for both CHEM 1210, 1310 and any of the above courses.Meets Tennessee Technological University general education requirement (Natural Sciences).

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 1010.

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Natural Sciences).

Course Information

Course Title
Foundations of Chem Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1050

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Corequisite: CHEM 1000. Selected experiments to complement lecture material in CHEM 1000.

College/School
Arts and Sciences

Requisites and Restrictions

Corequisite:
CHEM 1000.

Course Information

Course Title
Concepts of Chemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1090

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
3

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: none. Concepts of Chemistry is an activity driven, integrated lecture/laboratory course covering the fundamental chemical principles of the structure of matter, the evidence and behavior chemical structure determines, as well as the real-world applications of chemical principles.

College/School
Arts and Sciences

Syllabus
CHEM 1090 syllabus.docx, General education new 1090 courses - UCC Feb 2025.docx

Course Information

Course Title
General Chemistry I

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1110

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisites: ACT Math score of 19 or higher; or SAT Math score of 530 or higher; or B or higher in CHEM 1000; or C or higher in MATH 1710; or Accuplacer QAS score of 250-300; or AAF 231 or greater. General chemistry course for students pursuing a degree in a STEM-related field. Topics include atomic and molecular level structure and properties, stoichiometry, aqueous reactions, thermochemistry, and properties of gases. Associated laboratory supports lecture content and incorporates elements of atomic emission spectroscopy and stoichiometric calculations.Meets Tennessee Technological University general education requirement (Natural Sciences).

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Natural Sciences).

Note:
Chemistry majors may not earn credit in both CHEM 1010 and 1110 or both 1020 and 1120. Credit will not be given for both CHEM 1210, 1310 and any of the above courses.

Course Information

Course Title
Gen Chem I Honors Ret

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1111

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Corequisite: CHEM 1110. An ACT score of 30 or higher is also recommended. Selected topics to add depth to the understanding of the material in CHEM 1110. Honors students can receive honors credit for CHEM 1110 by satisfactorily completing both CHEM 1110 and CHEM 1111.

College/School
Arts and Sciences

Requisites and Restrictions

Corequisite:
CHEM 1110. An ACT score of 30 or higher is also recommended.

Course Information

Course Title
General Chemistry II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1120

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CHEM 1110 with a grade of C or better. General chemistry course for students pursuing a degree in a STEM-related field. Topics include properties of liquids and solids, solutions, kinetics, thermodynamics, equilibrium, and electrochemistry. Associated laboratory supports lecture content and incorporates elements of molecular absorption spectroscopy ad equilibrium calculations.Meets Tennessee Technological University general education requirement (Natural Sciences). Chemistry majors may not earn credit in both CHEM 1010 and 1110 or both 1020 and 1120. Credit will not be given for both CHEM 1210, 1310 and any of the above courses.

College/School
Arts and Sciences

Course Information

Course Title
Gen Chem II-Hon Recitation

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1121

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
1

Lab Hours

Min:
1

Repeatable for Credit:
No

Course Description
Prerequisite: CHEM 1110. Corequisite: CHEM 1120. Selected topics to add depth to the understanding of the material in CHEM 1120. Honors students can receive honors credit for CHEM 1120 by satisfactorily completing both CHEM 1120 and CHEM 1121.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 1110

Corequisite:
CHEM 1120

Course Information

Course Title
Chemistry for Life Sciences

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1210

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Introduction to chemical principles and their applications to health and disease, which will include chemical structures, moles, organic chemistry and biochemistry. A knowledge of general mathematics is needed for the use of conversion factors, making of solutions, and calculation of dosages and dilutions. This course will not count as part of a chemistry sequence.
Chemistry majors may not earn credit in both CHEM 1010 and 1110 or both 1020 and 1120. Credit will not be given for both CHEM 1210, 1310 and any of the above courses.

College/School
Arts and Sciences

Course Information

Course Title
Concepts of Chemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1310

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Basic principles of chemistry including atomic structure, chemical bonding, basic stoichiometry, organic and inorganic compounds, and kinetic theory. Will not count as part of a chemistry sequence.Chemistry majors may not earn credit in both CHEM 1010 and 1110 or both 1020 and 1120. Credit will not be given for both CHEM 1210, 1310 and any of the above courses.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Natural Sciences).

Course Information

Course Title
Forensic Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1410

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: None. Forensic Science applies scientific principles to legal investigations, helping solve crimes by analyzing evidence. This course aims to allow you to be able to understand the chemicals that surround us in our everyday lives, the science behind collecting evidence and analyzing crime scenes, and to prepare you to become scientifically literate members of society and juries. This class teaches ways that chemistry can be used to classify and quantify matter, and how the legal system uses classification and quantification to provide evidence in criminal and civil cases.

College/School
Arts and Sciences

Syllabus
Forensic Science CHEM 1410 Syllabus.docx

Course Information

Course Title
1st-Yr Interactions/Advisement

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1500

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
This course engages the student in meaningful classroom and out-of-the-classroom activities. This is intended for chemistry majors and emphasizes information, activities, and requirements important to becoming an active and competent chemist.

College/School
Arts and Sciences

Course Information

Course Title
Culinary Chemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1710

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
3

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
Culinary chemistry explores the chemical basis of many of our foods. Through this 4-credit hour, general education, integrated lab/lecture course, students will learn basic principles of chemistry including scientific thought, measurement, dimensional analysis, atomic theory, atomic structure, chemical bonding, chemical reactions, basic stoichiometry and kinetic theory while they experiment with food to learn what it is made of, how it is processed to get to our table, how is it preserved, and how we change it to make it more enjoyable.

College/School
Arts and Sciences

Syllabus
Culinary Chemistry-CHEM 1710 Syllabus.docx

Course Information

Course Title
Sp Topics/Gen Chem

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1971

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisites: Consent of chair and instructor. Timely topics in chemistry. Course may be taken for credit more than once.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of chair and instructor.

Course Information

Course Title
Sp Topics/Gen Chem

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1972

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Lab Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisites: Consent of chair and instructor. Timely topics in chemistry. Course may be taken for credit more than once.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of chair and instructor.

Special Topics in General Chemistry

Course Information

Course Title
Sp Topics/Gen Chem

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
1973

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisites: Consent of chair and instructor. Timely topics in chemistry. Course may be taken for credit more than once.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of chair and instructor.

Course Information

Course Title
Intro to Inorganic Chemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CHEM 1120. Introduction to the basic principles of inorganic chemistry including bonding, nomenclature, coordination chemistry, molecular orbital theory, and basic transition metal organometallic chemistry.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 1120.

Course Information

Course Title
Clinical Pharmacology

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
2720

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: CHEM 3010. Principles of pharmacology including chemical structures, actions and reactions of drugs. Does not count as technical elective in chemistry.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 3010.

Course Information

Course Title
Hist of Scientific Thought

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
2810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Development of the scientific theories and concepts from antiquity through the 18th century. Does not count as technical elective in chemistry.

College/School
Arts and Sciences

Course Information

Course Title
Hist of Scientific Thought

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
2820

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Development of natural sciences in the 19th and 20th centuries. Does not count as technical elective in chemistry.

College/School
Arts and Sciences

Course Information

Course Title
Undergraduate Research Methods

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
2910

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Prerequisites: CHEM 1110, with a grade of C or better, or MATH ACT score of 27 or higher. CHEM 2910 is designed to introduce undergraduate students to the methods used in conducting research. This course is designed to teach students key skills utilized in a research setting, methods of data analysis, as well as how to disseminate information obtained through research. Upon completion of this course, students will be prepared to work effectively in a chemistry department research lab.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 1110 with a grade of C or better, or MATH ACT score of 27 or higher.

Course Information

Course Title
UG Research Methods II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
2920

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisities: Successful completion of CHEM 2910 with a B or better. CHEM 2920 is designed to apply and utilize the skills obtained in Undergraduate Research Methods (CHEM 2910) in a laboratory setting. Students will work with a faculty mentor on the research project that was assigned to them in CHEM 2910. Work on this project will allow students to build practical research skills that can be transferred to other research projects. Students will also disseminate the findings of their project at Research and Creative Activities Day.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Successful completion of CHEM 2910 with a B or better.

Course Information

Course Title
Elementary Organic Chemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
3005

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CHEM 1020 or 1120, or (CHEM 1010 or 1110 and ESS 3710). Aliphatic and aromatic organic chemistry for students in agriculture, human ecology, and pre-medical technology. Not for chemistry majors.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 1020 or CHEM 1120 or (CHEM 1010 or 1110, and ESS 3710).

Course Information

Course Title
Organic Chemistry I

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
3010

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: CHEM 1120 with a grade of C or better. Study of carbon-containing compounds using the functional group approach and an emphasis in simple mechanisms of aliphatic and aromatic compounds.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 1120 with a grade of C or better.

Course Information

Course Title
Organic Chemistry II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
3020

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: CHEM3010 with a grade of C or better. Study of carbon-containing compounds using the functional group approach and an emphasis in simple mechanisms of aliphatic and aromatic compounds.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 3010 with a grade of C or better.

Course Information

Course Title
Quantitative Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
3410

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: CHEM 1120. Introduction to chemical analysis including titrimetric and gravimetric methods involving acid-base, oxidation-reduction, and complexometric techniques. Application of mass action, equilibria, and indicators to chemical analysis. Introduction to instrumental analysis including electrochemical and spectroscopic methods.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 1120.

Course Information

Course Title
Analytical Applications

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
3420

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: CHEM 3410. The application of wet chemical and instrumental methods of analysis to real problems in chemistry, biochemistry, and the environment.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 3410.

Course Information

Course Title
Elements/Physical Chemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CHEM 1120 and MATH 1830 or 1910. Survey of physical chemistry designed for those desiring the B.S. degree with a major in chemistry, education, pre-professional studies, biology or students in general.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 1120, MATH 1830 or MATH 1910.

Course Information

Course Title
Physical Chemistry I

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
3510

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisites: CHEM 1120, MATH 1920, PHYS 2020 or PHYS 2110 (may be taken concurrently). Introduction to modern, molecular approach to physical chemistry. A moderately rigorous introduction to quantum chemistry covering symmetry, bonding, molecular spectroscopy and statistical mechanics to set a stage for the molecular treatment of thermodynamics and kinetics in CHEM 3520. Lectures are reinforced by a systematic set of modern spectroscopy laboratory experiments.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 1120, MATH 1920, PHYS 2020 or PHYS 2110 (may be taken concurrently.)

Course Information

Course Title
Physical Chemistry II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
3520

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: CHEM 3510. Kinetic theory of gases and Boltzmann distribution, Classical thermodynamics, adiabatic changes and Maxwell equations, heat capacity and equipartition theorem, thermodynamic and statistical entropy, chemical equilibrium, Electrochemistry, Phase transitions and thermodynamic aspects of phases, introduction to chemical kinetics and reaction dynamics. Lectures are reinforced by a systematic set of classical experiments in thermodynamics and kinetics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 3510.

Course Information

Course Title
Spl Prob in Chem Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
3990

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
Prerequisites: CHEM 1110, 1120, six additional hours of Chemistry and consent of a faculty research mentor and the departmental chairperson. Independent study of special topics in chemical education under the direction of a faculty mentor. Must be taken twice, preferably in consecutive semesters. Restricted to secondary education chemistry majors.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 1110, CHEM 1120, six additional hours of Chemistry and consent of a faculty research mentor and the departmental chairperson.

Course Information

Course Title
Inorganic Chemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: CHEM 2010 and CHEM 3500 or 3510. Correlation of physical and chemical properties of inorganic compounds and atomic structure.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 2010 and CHEM 3500 or CHEM 3510.

Course Information

Course Title
Inorganic Chemistry Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4150

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
Corequisite: CHEM 4110 (5110). Synthesis, isolation, and characterization of inorganic compounds, using conventional as well as microscale and inert gas techniques.

College/School
Arts and Sciences

Requisites and Restrictions

Corequisite:
CHEM 4110 (5110).

Course Information

Course Title
Chemistry of Polymers

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: CHEM 3020. Preparation, structure, physical and chemical properties of organic polymers. Experimental determination of average molar mass and its correlation to macroscopic properties. Thermal and viscoelastic behavior.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 3020.

Course Information

Course Title
Nuclear Chem & Radiochemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4310

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CHEM 3410, with a grade of C or better. Introduction to theory of nuclear stability and decay processes. The laboratory emphasizes the detection, safe handling, and use of radioisotopes in chemical investigations.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 3410 with a grade of C or better.

Course Information

Course Title
Spectro Ident-Organ Comp

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4320

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisites: CHEM 3020 and CHEM 3500 or 3510. The isolation and identification of organic compounds by both chemical and physical means with emphasis on spectroscopic methods.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 3020 and CHEM 3500 or CHEM 3510.

Course Information

Course Title
Forensic Chemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4410

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CHEM 3020 or 3410. This course will examine the application of chemical concepts and methods to the analysis of crime scene evidence.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 3020 or CHEM 3410.

Course Information

Course Title
Nutritional Biochemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CHEM 3005 or 3010. Introduction to the chemistry of biological molecules and the metabolic pathways as related to nutrition and physiological function. (Not for chemistry majors.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 3005 or 3010.

Course Information

Course Title
Instrumental Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4520

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisites: CHEM 3410 and 3500 or 3510 (may be taken concurrently). Theory and practice of atomic spectroscopy, chromatography, and electroanalysis; discussion of selected instrumental techniques for analysis of surfaces, molecules, and particles.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 3410 and CHEM 3500 or 3510 (may be taken concurrently).

Course Information

Course Title
General Biochemistry I

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CHEM 3010 with a grade of B or better or CHEM 3020. Chemistry of amino acids, proteins, lipids, carbohydrates, membranes and nucleic acids. Includes study of pH, enzyme kinetics, three-dimensional structure, and biochemical separation methods and analysis.

College/School
Arts and Sciences

Syllabus
Chemistry Proposal Final (4).docx

Requisites and Restrictions

Prerequisite:
CHEM 3010 with a grade of B or better or CHEM 3020

Course Information

Course Title
General Biochemistry II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CHEM 4300 or 4610 (5610). Intermediary metabolism and its regulation, bioenergetics and photosynthesis, biosynthesis of proteins and nucleic acids.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 4300 or 4610 (5610).

Course Information

Course Title
General Biochemistry Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4650

Credit Hours

Credit Hours:
2

Lab Hours

Min:
6

Course Description
Prerequisite: CHEM 4610 (5610) or CHEM 4300. Laboratory techniques associated with contemporary general biochemistry to include buffer preparation, pKa determination, amino acid analysis, protein expression, separation and purification techniques, protein determination, enzymology, equilibrium and binding constant determinations, and carbohydrate analysis. The CHEM 5650 student will engage in additional procedures in some of the experiments.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 4610 (5610) or CHEM 4300.

Course Information

Course Title
Environmental Chemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: CHEM 3005 or 3010, and CHEM 3410 or 3500 or 3510 (courses from the latter group may be taken concurrently). Basic concepts of environmental chemistry.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 3005 or CHEM 3010, and CHEM 3410 or CHEM 3500 or CHEM 3510 (courses from the latter group may be taken concurrently.)

Course Information

Course Title
Adv Environmental Chemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4720

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: CHEM 4710 (5710). Advanced topics within environmental chemistry including emphasis on organic, inorganic, and analytical environmental chemistry. Case studies and contemporary literature in the field will be discussed.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 4710 (5710).

Course Information

Course Title
Chemistry Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4910

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: One year of chemistry. Topics to be taught include the chemical literature, employment and interviewing, computer literacy, and the organization and oral presentation of current topics in chemistry.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
One year of Chemistry.

Course Information

Course Title
Chemistry Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4920

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Three semesters of chemistry courses. Seminar course focusing on the use of chemical literature, employment and interviewing skills, computer literacy, and the organization and presentation of current topics in chemistry.

College/School
Arts and Sciences

Syllabus
CHEM 4920-001 Syllabus Fall 2025.docx

Requisites and Restrictions

Prerequisite:
Three semesters of chemistry courses.

Course Information

Course Title
Internship in Chemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4940

Credit Hours

Credit Hours:
6

Other Hours

Min:
6

Course Description
Prerequisites: 18 hours of chemistry, Junior-Senior standing and consent of the chair. Supervised chemical work experience in a private or public agency that is related to the student's career goals. A minimum equivalent to ten weeks of half-time employment is required. Cannot be used to replace core or required elective CHEM courses within the major requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
18 hours of chemistry, Junior or Senior standing and consent of the chair.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4970

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Timely topics in chemistry. Course may be taken for credit more than once.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Distinction in Chem Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4980

Credit Hours

Credit Hours:
1

Lab Hours

Min:
0

Course Description
Lec. 0. Credit 1.Dissemination of independent research conducted with a Chemistry faculty advisor through participation in meetings (national meetings, state meetings and/or TTU Student Research Day), departmental seminar, and mini-thesis.

College/School
Arts and Sciences

Course Information

Course Title
Undergraduate Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4991

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Study in chemical research; to provide experience in the methodology of experimental investigation. (Maximum credit toward degree is four hours.) May not be repeated to improve grade.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Undergraduate Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4992

Credit Hours

Credit Hours:
2

Lab Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Study in chemical research; to provide experience in the methodology of experimental investigation. (Maximum credit toward degree is four hours.) May not be repeated to improve grade.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
Undergraduate Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
CHEM

Course Number
4993

Credit Hours

Credit Hours:
3

Lab Hours

Min:
9

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Study in chemical research; to provide experience in the methodology of experimental investigation. (Maximum credit toward degree is four hours.) May not be repeated to improve grade.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and departmental chairperson.

Course Information

Course Title
1st-Yr Interactions/Advisement

Academic Level (Course Level)
Undergraduate

Course Subject Code
UNPP

Course Number
1020

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
This course engages the student in meaningful classroom and out-of-classroom activities. This is intended for pre-professional health science students. It emphasizes information, activities, and requirements important to becoming competitive in a professional school application pool.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
UNPP

Course Number
2020

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of Instructor. Lower Division level study in a specific topic not commonly found in a discipline on campus, not to include work experience. May be repeated if topic is different. No more than a combined total of 9 hours of special topics may be taken.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
UNPP

Course Number
3020

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Sophomore standing or above; consent of instructor. Upper Division level study in a specific topic not commonly found in a discipline on campus, not to include work experience. May be repeated if topic is different. No more than a combined total of 9 hours of special topics may be taken.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore or standing above; consent of instructor.

Course Information

Course Title
Healthcare Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
UNPP

Course Number
4020

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or Senior Standing. Healthcare experience is a crucial component of a successful healthcare professional school application. It involves gaining practical exposure to the healthcare field, allowing you to interact with patients and healthcare professionals. This can be achieved through various avenues like volunteering, shadowing, or internships. This experience is vital for developing a realistic understanding of the healthcare field and these professions.

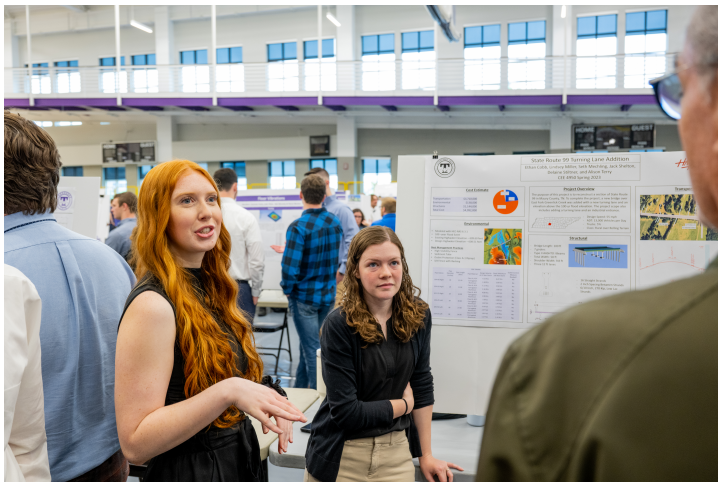
College/School
Arts and Sciences

Syllabus
UNPP 4020- Healthcare Experience Syllabus Final.pdf

Requisites and Restrictions

Prerequisite:
Prerequisite: Junior or Senior Standing.

Civil and Environmental Engr Department



Professor Mohr, Chairperson; Professor Badoe, Crouch, Datta, Henderson, Huo (Associate Vice President for Academic Affairs), Kalyanapu, Liu; Associate Professor Click, Huff, Ramirez, VandenBerge, Weathers; Assistant Professor Morrell; Lecturer Buell; Professor Emeritus Oswalt, Otuonye.

Programs

CE-BSCE - Civil Engineering, B.S.C.E.

Program Overview

Program Long Title
Civil Engineering, B.S.C.E.

College/School
Engineering

Department(s)
Civil and Environmental Engr

Degree Map

Degree Map Name
Degree Plan - Civil Engineering, B.S.C.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative
(Leading to the Bachelor of Science in Civil Engineering Degree)

Accredited by the Engineering Accreditation Commission of ABET, http://www/ABET.org

Year	Semester	Actual Credits
Freshman Year	Fall	16

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ENGR1110 - Engineering Graphics

Actual Credits 2

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- CEE1020 - Connections-Civ & Env Engr

Actual Credits -

Year	Semester	Actual Credits
Freshman Year	Spring	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II
  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Fall	17

Requirement Select
- CEE2110 - Statics

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring	17

Requirement Select
- CEE3600 - Surveying

Actual Credits 3

Requirement Select
- CEE3110 - Mechanics of Materials

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- ME2330 - Dynamics

Actual Credits 3

Requirement Select
- CEE3720 - Principles of Engr Statistics
  OR
- MATH3470 - Intro/Prob & Stats

Actual Credits 2

Year	Semester	Actual Credits
Junior Year	Fall	17

Requirement Select
- CEE3320 - Structural Mechanics

Actual Credits 3

Requirement Select
- CEE3413 - Environmental Engineering

Actual Credits 3

Requirement Select
- CEE3610 - Transportation Engineering

Actual Credits 3

Requirement Select
- CEE3710 - Principles of Engineering Econ

Actual Credits 2

Requirement Select
- CEE3030 - Civil Engineering Materials

Actual Credits 3

Requirement Select
- CEE3415 - Fluid Mechanics
  OR
- ME3720 - Fluid Mechanics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring	16

Requirement Select
- CEE3420 - Hydraulics

Actual Credits 3

Requirement Select
- CEE4310 - Structural Steel Design

Actual Credits 3

Requirement Select
- GEOL3210 - Geology for Engineers

Actual Credits 3

Requirement Select
- CEE3500 - Introduction to Construction Engineering and Management

Actual Credits 3

Requirement Select
- CEE4800 - Geotechnical Engineering

Actual Credits 3

Requirement Select
- CEE3040 - Geotechnical Engr Lab
  OR
- CEE3120 - Mech of Materials Lab
  OR
- CEE3430 - Environmental Engr Lab

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	Fall	14

Requirement Select
- CEE4320 - Reinforced Concrete Design

Actual Credits 3

Requirement Select
- CEE4920 - Professionalism & Ethics

Actual Credits 1

Requirement Select
- CEE4940 - Fundamentals of Civil Engr

Actual Credits -

Requirement Select

- Approved CEE Electives: any 4000-level CEE course (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- CEE3040 - Geotechnical Engr Lab
  OR
- CEE3120 - Mech of Materials Lab
  OR
- CEE3430 - Environmental Engr Lab

Actual Credits 1

Requirement Select

- MATH2010 - Introduction to Linear Algebra
  OR
- MATH3810 - Complex Variables
  OR
- MATH4210 - Numerical Analysis I
  OR
- MATH4510 - Adv Math for Engineers

Actual Credits 3

Requirement Select

- CEE Sequence (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	14

Requirement Select

- CEE4950 - Senior Design Project

Actual Credits 3

Requirement Select

- CEE Elective (3 cr.): any 4000-level CEE course
  (Generic)

Actual Credits 3

Requirement Select

- CEE elective (3 cr.): any 4000-level CEE course
  (Generic)

Actual Credits 3

Requirement Select

- Approved CEE Sequence (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- ENGR1120 - Programming for Engineers
  OR
- ME2210 - Thermodynamics
  OR
- CHE3010 - Thermodynamics-Chem Processes

Actual Credits 2

Requirement Select

- Approved CEE Sequence Construction Engineering & Management: CEE 4510 (ENGR 4510), CEE 4520, CEE 4530, CEE 4535, CEE 4540, CEE 4550, CEE 4560 Environmental Engineering & Water Resources: CEE 4410 (5410), CEE 4420 (5420), CEE 4430 (5430), CEE 4440 (5440), CEE 4450 (5450), CEE 4460 (5460), CEE 4470 (5470), CEE 4490 Structural Mechanics: CEE 4130 (5130), CEE 4170 (5170), CEE 4190 (5190) Structural & Geotechnical Engineering: CEE 4340 (5340), CEE 4350 (5350), CEE 4360 (5360), CEE 4370 (5370), CEE 4380 (5380), CEE 4390 (5390), CEE 4550, CEE 4810 (5810), CEE 4820 (5820) Transportation Engineering: CEE 4610 (5610), CEE 4630 (5630), CEE 4640 (5640), CEE 4660 (5660)
  (Generic)

Actual Credits -

CE-CEGE - Civil Engineering, Geological Engineering Concentration, B.S.C.E.

Program Overview

Program Long Title
Civil Engineering, Geological Engineering Concentration, B.S.C.E.

College/School
Engineering

Department(s)
Civil and Environmental Engr

Degree Map

Degree Map Name
Degree Plan - Civil Engineering, Geological Engineering, B.S.C.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- CEE1020 - Connections-Civ & Env Engr

Actual Credits -

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ENGR1110 - Engineering Graphics

Actual Credits 2

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CEE2110 - Statics

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- CEE3110 - Mechanics of Materials

Actual Credits 3

Requirement Select
- CEE3413 - Environmental Engineering

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- ME2330 - Dynamics

Actual Credits 3

Requirement Select
- CEE3710 - Principles of Engineering Econ
  OR
- ENGR3710 - Principles of Engr Economy

Actual Credits 2

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- CEE3030 - Civil Engineering Materials

Actual Credits 3

Requirement Select
- CEE3320 - Structural Mechanics

Actual Credits 3

Requirement Select
- CEE3600 - Surveying

Actual Credits 3

Requirement Select
- ME3720 - Fluid Mechanics
  OR
- CEE3415 - Fluid Mechanics

Actual Credits 3

Requirement Select
- CEE3500 - Introduction to Construction Engineering and Management

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- CEE3040 - Geotechnical Engr Lab

Actual Credits 1

Requirement Select
- CEE3420 - Hydraulics

Actual Credits 3

Requirement Select
- CEE3610 - Transportation Engineering

Actual Credits 3

Requirement Select
- CEE4800 - Geotechnical Engineering

Actual Credits 3

Requirement Select
- CEE4310 - Structural Steel Design
  OR
- CEE4320 - Reinforced Concrete Design

Actual Credits 3

Requirement Select
- GEOL3210 - Geology for Engineers

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- CEE4920 - Professionalism & Ethics

Actual Credits 1

Requirement Select
- CEE4940 - Fundamentals of Civil Engr

Actual Credits -

Requirement Select
- CEE3720 - Principles of Engr Statistics
  OR
- ENGR3720 - Principles of Engr Statistics
  OR
- MATH3470 - Intro/Prob & Stats

Actual Credits 2

Requirement Select
- GEOL Electives (12 cr.)
  (Generic)

Actual Credits 12

Requirement Select

- Geology Electives: GEOL 3120, GEOL 3230, GEOL 3310, GEOL 4110, GEOL 4120, GEOL 4150, GEOL 4210, GEOL 4300, GEOL 4711. A minimum of 15 credits of GEOL courses are required (excludes GEOL 3210). (Generic)

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- Approved CEE Elective: Any 4000-level CEE course (3 cr.) (Generic)

Actual Credits 3

Requirement Select

- CEE4810 - Foundation Engineering
  OR
- CEE4820 - Retaining Walls & Excavations

Actual Credits 3

Requirement Select

- CEE4950 - Senior Design Project

Actual Credits 3

Requirement Select

- GEOL Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- ENGR1120 - Programming for Engineers
  OR
- CHE3010 - Thermodynamics-Chem Processes
  OR
- ME2210 - Thermodynamics

Actual Credits 3

Requirement Select

- CEE Lab Elective: CEE 3120 or CEE 3430; CEE 3430 preferred
  (Generic)

Actual Credits -

Requirement Select

- Geology Electives: GEOL 3120, GEOL 3230, GEOL 3310, GEOL 4110, GEOL 4120, GEOL 4150, GEOL 4210, GEOL 4300, GEOL 4711. A minimum of 15 credits of GEOL courses are required (excludes GEOL 3210). (Generic)

Actual Credits -

Requirement Select

- CEE Elective: Any 4000-level CEE course
  (Generic)

Actual Credits -

CE-CEM - Civil Engineering, Construction Engineering Management Concentration, B.S.C.E.

Program Overview

Program Long Title
Civil Engineering, Construction Engineering Management Concentration, B.S.C.E.

College/School
Engineering

Department(s)
Civil and Environmental Engr

Degree Map

Degree Map Name
Degree Plan - Civil Engineering, Construction Engineering and Management, B.S.C.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- CEE1020 - Connections-Civ & Env Engr

Actual Credits -

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ENGR1110 - Engineering Graphics

Actual Credits 2

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II
  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- CEE2110 - Statics

Actual Credits 3

Requirement Select
- CEE3710 - Principles of Engineering Econ

Actual Credits 2

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	18

Requirement Select
- CEE3110 - Mechanics of Materials

Actual Credits 3

Requirement Select
- CEE3500 - Introduction to Construction Engineering and Management

Actual Credits 3

Requirement Select
- CEE3600 - Surveying

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- ME2330 - Dynamics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- CEE Lab Elective (1 credit): Select 1 of the following 3 CEE lab courses: CEE 3040, CEE 3120, CEE 3430. (Generic)

Actual Credits 1

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- CEE3320 - Structural Mechanics

Actual Credits 3

Requirement Select
- CEE3413 - Environmental Engineering

Actual Credits 3

Requirement Select
- CEE3610 - Transportation Engineering

Actual Credits 3

Requirement Select
- ME3720 - Fluid Mechanics
  OR
- CEE3415 - Fluid Mechanics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- CEE3030 - Civil Engineering Materials

Actual Credits 3

Requirement Select
- CEE3420 - Hydraulics

Actual Credits 3

Requirement Select
- CEE4310 - Structural Steel Design

Actual Credits 3

Requirement Select
- CEM Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- GEOL3210 - Geology for Engineers

Actual Credits 3

Requirement Select
- Construction Engineering and Management Electives: CEE 4500-4599, ENGR (CEE) 4510, ACCT 3720, BMGT 3630, BMGT 4410, BMGT 4520. At least 3 of 5 courses must be CEE (ENGR) courses (Generic)

Actual Credits -

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- CEE3720 - Principles of Engr Statistics
  OR
- MATH3470 - Intro/Prob & Stats

Actual Credits 2

Requirement Select
- CEE4320 - Reinforced Concrete Design

Actual Credits 3

Requirement Select
- CEE4800 - Geotechnical Engineering

Actual Credits 3

Requirement Select
- CEE4920 - Professionalism & Ethics

Actual Credits 1

Requirement Select

- CEE4940 - Fundamentals of Civil Engr

Actual Credits -

Requirement Select

- CEM Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select

- Construction Engineering and Management Electives: CEE 4500-4599, ENGR (CEE) 4510, ACCT 3720, BMGT 3630, BMGT 4410, BMGT 4520. At least 3 of 5 courses must be CEE (ENGR) courses
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- Approved CEE Lab Elective (1 credit): Select 1 of the following 3 CEE lab courses: CEE 3040, CEE 3120, CEE 3430
  (Generic)

Actual Credits 1

Requirement Select

- CEE4950 - Senior Design Project

Actual Credits 3

Requirement Select

- CEM Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select

- ENGR1120 - Programming for Engineers
  OR
- CHE3010 - Thermodynamics-Chem Processes
  OR
- ME2210 - Thermodynamics

Actual Credits 2

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- Construction Engineering and Management Electives: CEE 4500-4599, ENGR (CEE) 4510, ACCT 3720, BMGT 3630, BMGT 4410, BMGT 4520. At least 3 of 5 courses must be CEE (ENGR) courses
  (Generic)

Actual Credits -

CE-CENV - Civil Engineering, Environmental Engineering Concentration, B.S.C.E.

Program Overview

Program Long Title
Civil Engineering, Environmental Engineering Concentration, B.S.C.E.

College/School
Engineering

Department(s)
Civil and Environmental Engr

Degree Map

Degree Map Name
Degree Plan - Civil Engineering, Environmental Engineering, B.S.C.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- CEE1020 - Connections-Civ & Env Engr

Actual Credits -

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ENGR1110 - Engineering Graphics

Actual Credits 2

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CEE2110 - Statics

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- CEE3600 - Surveying

Actual Credits 3

Requirement Select
- CEE3110 - Mechanics of Materials

Actual Credits 3

Requirement Select
- CEE3710 - Principles of Engineering Econ

Actual Credits 2

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- ME2330 - Dynamics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- CEE3320 - Structural Mechanics

Actual Credits 3

Requirement Select
- CEE3413 - Environmental Engineering

Actual Credits 3

Requirement Select
- CEE3430 - Environmental Engr Lab

Actual Credits 1

Requirement Select
- CEE3500 - Introduction to Construction Engineering and Management

Actual Credits 3

Requirement Select
- CEE3610 - Transportation Engineering

Actual Credits 3

Requirement Select
- ME3720 - Fluid Mechanics
  OR
- CEE3415 - Fluid Mechanics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	17

Requirement Select
- CEE3030 - Civil Engineering Materials

Actual Credits 3

Requirement Select
- CEE3420 - Hydraulics

Actual Credits 3

Requirement Select
- CEE3720 - Principles of Engr Statistics
  OR
- MATH3470 - Intro/Prob & Stats

Actual Credits 2

Requirement Select
- CEE4310 - Structural Steel Design
  OR
- CEE4320 - Reinforced Concrete Design

Actual Credits 3

Requirement Select
- CHE3010 - Thermodynamics-Chem Processes
  OR
- ME2210 - Thermodynamics

Actual Credits 3

Requirement Select
- GEOL3210 - Geology for Engineers

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- CEE4800 - Geotechnical Engineering

Actual Credits 3

Requirement Select
- CEE4920 - Professionalism & Ethics

Actual Credits 1

Requirement Select
- CEE4940 - Fundamentals of Civil Engr

Actual Credits -

Requirement Select
- ENGR1120 - Programming for Engineers

Actual Credits 2

Requirement Select
- Environmental Engineering Elective: CEE 4400-4499, ESS 3000, GEOG 4510, GEOG 4511, GEOG 4620, GEOG 4650, or GEOL 4711; At least 3 of 5 courses must be CEE courses
  (Generic)

Actual Credits 9

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select

- CEE Elective: Any 4000 level CEE course (Generic)

Actual Credits 3

Requirement Select

- CEE Lab Elective: CEE 3040 or CEE 3120; CEE 3040 preferred (Generic)

Actual Credits 1

Requirement Select

- CEE4950 - Senior Design Project

Actual Credits 3

Requirement Select

- Environmental Engineering Electives (6 cr.) (Generic)

Actual Credits 6

Requirement Select

- Environmental Engineering Electives: CEE 4400-4499, ESS 3000, GEOG 4510, GEOG 4511, GEOG 4620, GEOG 4650, or GEOL 4711; At least 3 of 5 courses must be CEE courses (Generic)

Actual Credits -

Requirement Select

- CEE Elective: Any 4000-level CEE course (Generic)

Actual Credits -

CENV-MIN - Environmental Engineering Minor

Program Overview

Program Long Title
Environmental Engineering Minor

College/School
Engineering

Department(s)
Civil and Environmental Engr

Requirements

Simple Requirements

Environmental Engineering Minor

Type
Completion Requirement

Environmental Engineering (CENV) Minor

Curriculum:

Students must complete fifteen (15) semester hours of courses related to environmental engineering including:

CEE 3413 - Environmental Engineering Credit: 3.

And twelve (12) upper division hours from:

CEE 3420 - Hydraulics Credit: 3.

Any course numbered CEE 4400-4499.

CEE 4990 (5990) - Special Problems Credit: 1-4 per semester. Maximum 18. (with approval of CEE department chair).

ME 3210 - Thermodynamics I Credit: 3. or CHE 3010 - Thermodynamics of Chemical Processes Credit: 3.

CEE 3415 - Fluid Mechanics Credit: 3. or ME 3720 - Fluid Mechanics Credit: 3. or CHE 3121 - Transfer Science II: Fluid Mechanics Credit: 4.

MSCI-MIN - Materials Science and Engineering Minor

Program Overview

Program Long Title
Materials Science and Engineering Minor

College/School
Engineering

Department(s)
Civil and Environmental Engr

Requirements

Simple Requirements

Materials Science and Engineering Minor

Type
Completion Requirement

Materials Science and Engineering (MSCI) Minor

Curriculum:

Students must complete fifteen (15) semester hours of coursework related to materials science and engineering including:

ME 3010 - Materials and Processes in Manufacturing Credit: 3.

And a minimum of six (6) hours from the following three courses:

CEE 3030 - Civil Engineering Materials Credit: 3.

CHE 4330 (5330) - Polymer Engineering Credit: 3.

ECE 3540 - Physical Electronics Credit: 3.

And three (3) to six (6) hours from the following:

CEE 4600 (5600) - Civil Engineering Materials II Credit: 3.

CHE 4340 - Introduction to Rheology Credit: 3.

CHEM 2010 - Introduction to Inorganic Chemistry Credit: 3.

CHEM 3005 - Elementary Organic Chemistry Credit: 4. or CHEM 3010 - Organic Chemistry I Credit: 4.

CHEM 3500 - Elements of Physical Chemistry Credit: 3. or CHEM 3510 - Physical Chemistry I Credit: 4.

CHE 3010 - Thermodynamics of Chemical Processes Credit: 3. or ME 3210 - Thermodynamics I Credit: 3.

ME 4460 (5460) - Mechanical Properties of Materials Credit: 3.

ME 4480 (5480) - Microstructural Analysis Credit: 3.

ME 4490 (5490) - Properties and Selection of Engineering Materials Credit: 3.

Approved Special Problems coursework.

Note:

Six (6) credits of prerequisites, CEE 2110 and CEE 3110, are required to proceed with the minor. These courses are commonly taken within the College of Engineering and may be taken by any engineering student (CEE, CHE, ECE, ME) as required or elective courses in the respective curricula. As such these courses are not included in the minor. Dr. Ben Mohr (CEE) and Dr. Chris Wilson (GBE) will serve as "Chair" for administrative purposes of this minor, in the event of course substitutions and/or curricular changes.

Courses

Course Information

Course Title
Connections-Civ & Env Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
1020

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
Engages the student in meaningful academic and non-academic activities introducing students to the CEE department and the civil engineering profession. Emphasizes time management and study skills, department and university resources, faculty interaction, professional and student organizations, and the civil engineering profession.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Freshman Standing.

Course Information

Course Title
Statics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
2110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 2110 (PHYS 2110 may be taken concurrently); C or better in MATH 1920. Vector algebra, resultants, equilibrium, friction, centroids, moment of inertia, trusses, machines and frames, beam shear and moments.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
PHYS 2110 (PHYS 2110 may be taken concurrently); C or better in MATH 1920.

Note:
(ENGR 2110, TTP Course)

Course Information

Course Title
Civil Engineering Graphics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3000

Credit Hours

Credit Hours:
2

Lab Hours

Min:
4

Course Description
Prerequisite: Junior Standing. The course introduces students to the use of computer aided design and drafting software (CADD) and to instruct students in best practices for preparing Civil Engineering drawings.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Civil Engineering Materials

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3030

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: CEE 3110. Characteristics and uses of aggregates, Portland cement, concrete and bituminous materials for highways and other major engineering works.t

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3110.

Course Information

Course Title
Geotechnical Engr Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3040

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisite: CEE 3030. Measurement of basic engineering properties of soils.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3030.

Course Information

Course Title
Mechanics of Materials

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in CEE 2110. Stress, strain, Hooke's law, extension, torsion, and bending; beam deflections, column buckling and combined stresses.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CEE 2110.

Course Information

Course Title
Mech of Materials Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3120

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisite: CEE 3110. A series of experiments which demonstrate the theory of mechanics of materials and the most important characteristics of engineering materials.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3110.

Course Information

Course Title
Structural Mechanics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CEE 3110. Analysis of statically determinate and indeterminate structures; influence lines; and moving loads. Classical and computer methods.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3110.

Course Information

Course Title
Introduction to Structures

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3340

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 1710 or MATH 1730 or MATH 1910. Introduction to statics, mechanics of materials, and structural analysis; properties of commonly used structural materials, minimum design loads from ASCE 7. Not for Civil Engineering majors.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 1710 or MATH 1730 or MATH 1910.

Course Information

Course Title
Environmental Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3413

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CHEM 1110 and MATH 1920. Fundamentals of environmental engineering with applications in water quality, water and wastewater treatment, solid waste management, air pollution, and hazardous waste management.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CHEM 1110 and MATH 1920.

Course Information

Course Title
Fluid Mechanics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3415

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ME 2330. Fundamental fluid mechanics with focus on hydraulic design of civil engineering systems. Topics include hydrostatics, kinematics, energy and momentum principles, flows through pipes and networks, introduction to open channel flow.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 2330.

Course Information

Course Title
Hydraulics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ME 3720 or CEE 3415. Fundamental principles and design of water and wastewater supply, stormwater and sanitary sewer systems and their components, including pipes, pumps, storage facilities, detention basins, open-channels, and culverts.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3720 or CEE 3415.

Course Information

Course Title
Environmental Engr Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3430

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisite or corequisite: CEE 3413. Laboratory experiments to illustrate the application of engineering fundamentals to environmental systems.

College/School
Engineering

Requisites and Restrictions

Prerequisite or corequisite:
CEE 3413.

Introduction to Construction Engineering and Management

Course Information

Course Title
Intro-Construction Engr/Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Junior Standing. The design and management of the construction phase of a project: scheduling, estimating, contracts, laws, financing, and safety.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Junior standing

Course Information

Course Title
Surveying

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3600

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MATH 1920. Introduction to the fundamental principles, instruments, and techniques associated with surveying for highway purposes.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 1920.

Course Information

Course Title
Transportation Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3600. Introduction to transportation engineering; planning, location, design, and operation of transportation facilities.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3600.

Course Information

Course Title
Principles of Engineering Econ

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3710

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Math 1920. Concepts and techniques useful in the economic evaluation of engineering alternatives.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 1920.

Course Information

Course Title
Principles of Engr Statistics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
3720

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: MATH 1920. Engineering applications of probability, hypothesis testing, and confidence intervals.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 1920.

Course Information

Course Title
Matrix & Finite Element Method

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: CEE 3320 or ME 3620 and MATH 2010 or MATH 4510. Matrix formulations using flexibility and stiffness methods for structural analysis of skeletal structures. Finite element formulations and applications.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3320 or ME 4640 (5640) and MATH 2010 or MATH 4510 (5510).

Course Information

Course Title
Intro-Mechanics of Composites

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4170

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3110. Introduction to mechanics of fibrous, laminated composites. Micromechanics, mechanical properties, stiffness and strength, and classical laminate theory. Thermal and moisture effects. Effective engineering properties of laminates. Failure theories, design criteria, and computational implementation.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3110.

Course Information

Course Title
Adv Mechanics of Materials

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4190

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: CEE 3110, MATH 2120, or consent of instructor. Advanced topics, fracture mechanics, elastic support, non-circular shafts, curved beams, thick-walled cylinders, introduction to plates, and thin shells of revolution.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3110, MATH 2120 or consent of instructor.

Course Information

Course Title
Structural Steel Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CEE 3320. Design of members and structures in steel. Analysis and design of beams, tension members, compression members, members with combined stresses, and standard connections.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3320.

Course Information

Course Title
Reinforced Concrete Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CEE 3320. Design of members and structures in concrete. Design of beams, slabs, columns, and footings.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3320.

Course Information

Course Title
Res & Light Comm Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4340

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3320 or CEE 3340. Material properties of timber elements; design of timber beams, columns, and connection; light gauge steel properties and design; residential and commercial design considerations.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3320 or CEE 3340.

Course Information

Course Title
Advanced Structural Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4350

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 4310. Special topics in analysis and design of steel structures. Plastic design, composite design, plate girders, and special connections.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 4310.

Course Information

Course Title
Adv Top/Struc Concrete Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4360

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 4320. Special topics in the design of concrete structures. Combined footings, retaining walls, two-way slabs, and prestressed concrete.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 4320.

Course Information

Course Title
Masonry Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4370

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CEE 3030 and CEE 4320. Masonry materials and construction. Design of masonry beams, walls, and columns. Seismic design of masonry structures.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3030 and CEE 4320.

Course Information

Course Title
Bridge Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4380

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 4310. Design of structural steel and reinforced concrete bridges.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 4310.

Course Information

Course Title
Bridge Design II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4390

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 4380 (5380). Steel plate girder design; prestressed concrete girder design; bridge substructure design including multi-post piers, spread footings, point bearing piles, and friction piles.

College/School
Engineering

Syllabus
1c1.CEE4390.ABET.syllabus.docx

Requisites and Restrictions

Prerequisite:
CEE 4380

Course Information

Course Title
Solid & Hazard Waste Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3413 or consent of instructor. The collection and disposal of solid wastes. Treatment and disposal technologies of hazardous wastes.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3413 or consent of instructor.

Course Information

Course Title
Engineering Hydrology

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3420 or consent of instructor. Fundamental processes in the hydrologic cycle including precipitation, infiltration and runoff. Quantitative approaches for engineering hydrology to estimate flows for a variety of design problems.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3420 or consent of instructor.

Water and Wastewater Engineering

Course Information

Course Title
Water/Wastewater Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CHEM 1120 and CEE 3413 or consent of instructor. Analytical methods for use in water quality management of streams, lakes, reservoirs and groundwater systems. Project design of water and wastewater treatment plants.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CHEM 1120 and CEE 3413 or consent of instructor.

Course Information

Course Title
Water Resources Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4440

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3420 or consent of instructor. Problems related to the planning and design of systems to manage water resources for flood-damage reduction, hydropower and river navigation.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3420 or consent of instructor.

Course Information

Course Title
Water Quality Modeling

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4450

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CHEM 1120 and CEE 3413 or consent of instructor. Mathematical modeling of chemical and biological processes occurring in streams, lakes, and estuaries, emphasizing oxygen demand and nutrient processes.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CHEM 1120 and CEE 3413 or consent of instructor.

Geospatial Modeling and Analysis in Engineering

Course Information

Course Title
Geospatial Model/Analysis Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4460

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CEE 3600 and CEE 3420. GIS & spatial data models; projections and coordinate systems; maps, data entry, editing & output; basic spatial analysis; GPS & GNSS; aerial & satellite images, terrain analysis; raster analysis; and spatial estimation.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3600 and CEE 3420

Course Information

Course Title
Stormwater Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4470

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CEE 3413 and CEE 3420. Fundamental and practical knowledge in stormwater management and design, including why and how improper management causes hydrologic and ecosystem problems, develop concepts supporting the design and modeling of stormwater best management practices and relate that to the current regulatory environment for stormwater.

College/School
Engineering

Syllabus
1a1.CEE4470(5470).syllabus.docx

Experiential Learning in Water Resources and Environmental Engineering

Course Information

Course Title
Exp Lrn/Water Res/Env Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4490

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: CHEM 1120, CEE 3413, CEE 3420, and consent of instructor. Real-world experience in the field of water resources and environmental engineering; apply theory and design knowledge gained in civil and environmental engineering courses to practice.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CHEM 1120, CEE 3413, CEE 3420, and consent of instructor.

Construction Estimating and Cost Control

Course Information

Course Title
Construction Est/Cost Control

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3500. Estimating procedures, contract documents, quantity take-off, bidding strategy, and bid opening.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3500.

Construction Project Planning, Scheduling, and Control

Course Information

Course Title
Constr Proj Plng,Sch,Cntrl

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4525

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3500. Techniques used in controlling the progress of construction projects, including development of project schedule and monitoring progress using critical path methodology.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3500.

Course Information

Course Title
Construction Safety

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3500. Project security control, construction accident prevention, safety information sources, weather precautions, emergency planning, and OSHA procedures and regulations.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3500.

Construction Operations, Materials, and Methods

Course Information

Course Title
Constr Op, Materials, Methods

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4535

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3500. Materials, methods, and construction equipment.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3500.

Course Information

Course Title
Legal Aspects in Construction

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4540

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3500. Contracts, torts, professional liability, labor laws, insurance, expert testimony, arbitration, sureties, and ethics.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3500

Course Information

Course Title
Building Information Modeling

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ENGR 1110 and CEE 4310 (CEE 4310 may be taken concurrently). Building configuration, layout, and modeling for steel structures.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ENGR 1110 and CEE 4310 (CEE 4310 may be taken concurrently).

Course Information

Course Title
Temporary Structures

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4560

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3500. Formwork, falsework, bracing, earth retention systems, cofferdams, scaffolding, and material handling equipment and staging.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3500.

Course Information

Course Title
Civil Engineering Materials II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4600

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: CEE 3030. Design and testing of high-strength PCC, self-consolidating PCC, high volume fly ash PCC and pervious PCC. Controlled low-strength materials. Concrete formwork design. Masonry materials evaluation. Aggregate production and improvement.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3030.

Course Information

Course Title
Pavement Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3610. Structural design of flexible and rigid pavements. Pavement rehabilitation. Properties of subgrades, base courses, and paving materials.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3610.

Course Information

Course Title
Traffic Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3610. Techniques of traffic engineering measurements, investigations and data analysis; design, application, and operation of traffic control systems and devices.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3610.

Course Information

Course Title
Highway Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4640

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3610. Theory and practice of highway geometric design, highway plans, construction practices, and computer applications to highway design.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3610.

Course Information

Course Title
Transportation Planning

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4660

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3610. System planning and evaluation. Characteristics, impacts, and costs. User patterns. Alternative analysis.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3610.

Course Information

Course Title
Geotechnical Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4800

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3030 and GEOL 3210 or GEOL 1040. (CEE 3030 and GEOL 3210 may be taken concurrently). Soil physical properties, classification, permeability and seepage, consolidation, shear strength and introduction to foundations

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3030; GEOL 3210 or GEOL 1040. (CEE 3030 and GEOL 3210 may be taken concurrently.)

Course Information

Course Title
Foundation Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: CEE 4800. Soil mechanics (emphasis on stress and shear strength), bearing capacity, magnitude and time-rate of consolidation, geotechnical design of shallow and deep foundations.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 4810 (5810).

Course Information

Course Title
Retaining Walls & Excavations

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4820

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 4800. Soil mechanics (emphasis on stress and shear strength), lateral earth pressure, excavation systems and anchorage, mechanically stabilized earth walls, geotechnical design of retaining walls and excavation support.

College/School
Engineering

Syllabus
1d1.CEE4820.ABET.syllabus.docx

Requisites and Restrictions

Prerequisite:
CEE 4800

Course Information

Course Title
Forensic Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4850

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 4800 (CEE 4800 may be taken concurrently) and CEE 4310 or CEE 4320. Forensic case studies related to civil engineering

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 4800 (CEE 4800 may be taken concurrently) and CEE 4310 or CEE 4320.

Course Information

Course Title
Professionalism & Ethics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4920

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Senior standing. A discussion of the ethical, social, and economic considerations in engineering practice, and professional and technical societies.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Senior Standing.

Course Information

Course Title
Noise Control

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4930

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: MATH 2120 and PHYS 2110. Identification and description of noise sources and noise radiation, methods of noise measurements and criteria for noise levels, principles and techniques of noise control.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 2120 and PHYS 2110.

Course Information

Course Title
Fundamentals of Civil Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4940

Credit Hours

Credit Hours:
0

Other Hours

Min:
2

Course Description
Prerequisite: CEE 3030, CEE 3413, CEE 3420, CEE 3610, CEE 3710, CEE 4310 or CEE 4320, CEE 4800, and CEE 4920 (CEE 3030, CEE 3420, CEE 3710, CEE 4310, CEE 4320, CEE 4800, and CEE 4920 may be taken concurrently). Review fundamentals in preparation for fundamentals-of-engineering (FE) test.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3030, CEE 3413, CEE 3420, CEE 3610, CEE 3710, CEE 4310 or CEE 4320, CEE 4800, and CEE 4920 (CEE 3030, CEE 3420, CEE 3710, CEE 4310, CEE 4320, CEE 4800 and CEE 4920 may be taken concurrently).

Course Information

Course Title
Senior Design Project

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4950

Credit Hours

Credit Hours:
3

Lab Hours

Min:
6

Course Description
Prerequisite: Consent of instructor. Comprehensive design project of civil engineering projects using a team approach.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Undergraduate Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4970

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Consent of Instructor. Research in the student's area of interest focusing on proposal development, literature review, and experimental/computational research activities cumulating in a final report. May not be repeated to improve a grade.

College/School
Engineering

Syllabus
CEE4970.syllabus.docx

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4980

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Number Of Repeats:
1

Course Description
Prerequisite: Consent of Instructor. Independent study in an area not covered by existing courses. May not be repeated to improve a grade.

College/School
Engineering

Syllabus
CEE4980.syllabus.docx

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
CEE

Course Number
4990

Credit Hours

Credit Hours:
1

Credit Hours:
4

Lecture Hours

Min:
0

Max:
4

Lab Hours

Min:
0

Max:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of Instructor. Current topics in civil and environmental engineering as an experimental course. Prerequisites may vary depending upon course topic. May be repeated if different topic.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of Instructor. Prerequisites may vary depending upon course topic.

College of Arts and Sciences Department

Daren Snider, Dean

Departments and Programs

• Student Success Center • Department of Biology • Department of Chemistry • Department of Earth Sciences • Department of English	• Department of Foreign Languages • Department of History • Department of Mathematics • Department of Physics • Department of Sociology and Political Science • Interdisciplinary

Mission and Scope

The College of Arts & Sciences provides a liberal arts education for all TTU students, strong major programs in more than thirty areas of study, high-quality foundational courses for students in programs outside the College, and new knowledge through faculty and student research. In pursuing this mission, the College emphasizes the skills and perspectives vital to lifelong education and decision-making in a democracy. These include critical and contextual thinking, effective communication, active learning, and proficiency with technology. Across the ten departments, many courses address one or more of the following major issues: environmental problems, the complex relations of science and society, and the coexistence of differing cultural or ethnic groups within the U.S. and around the globe.

General Requirements for a Baccalaureate Degree in the College of Arts and Sciences

A student must satisfy the general university requirements for a baccalaureate degree. The departmental chairperson, or a faculty member designated by the chairperson, serves as the student's academic advisor.

Minor in Arts and Sciences

A minor for Arts and Sciences students requires the completion of 15 semester hours, including 6 upper-division hours, in a coherent program of study. The criterion of coherence may be met in either of two ways: (1) by following the minor curriculum prescribed by any department or college at TTU, so long as it includes at least 6 upper-division hours; (2) if such a minor curriculum is not available in the chosen department or college, by taking the 15 semester hours, including 6 at the upper division, in a single discipline—i.e., normally, courses with the same course prefix, but students should check with the department offering the minor before assuming this. Exception: A minor in physics will consist of at least 15 hours of coursework including PHYS 2110, PHYS 2120, PHYS 2420, PHYS 2920 and one upper division physics course. Approved interdisciplinary minors in the College of Arts and Sciences are:

- Chemistry Minor
- Environmental Studies Minor
- Women’s and Gender Studies Minor

Interdepartmental Programs and Activities

All College of Arts and Sciences programs cross over departmental lines to bring in appropriate experiences from other disciplines. Some programs, however, require an unusually broad set of activities to accomplish their goals. The *B.S. in International Business and Cultures* uses the resources of two colleges in preparing students to solve complex problems in international commerce. The *pre-professional programs* draw from a wide spectrum of sciences, humanities, and social sciences as they prepare students for careers in medicine, law, and the allied health sciences. In addition to department-based minor programs, students can choose from several interdisciplinary minors: Women and Gender Studies, Environmental Studies, Education or Business. Finally, the Internship in Technology and Community Development adds an applied technology credential to the student's major.

Career Tracks

The College prepares students for professional training in law, medicine, dentistry, and other health sciences. Students with the goal of attending professional school are encouraged to declare a health professional Career Track as a supplement to their major (as well as, if applicable, concentration and/or minor) in order to receive additional advising and support, including but not limited to guidance on meeting the pre-requisites of their desired professional program. The courses required or recommended for certain professional programs are annually revised and updated to make certain students are well-prepared and are competitive on required aptitude

tests (for example, DAT, LSAT, MCAT, OAT, PCAT,and GRE). Among the many opportunities for active learning related to pre-professional studies are: the mock-trial team, speech and debate teams, internships and work experiences, and pre-professional student groups, such as the Chem-Med Club, which provide trips to professional schools and interactions with other health-professional Career Track students and with prominent practitioners in the various fields.

Available Career Tracks include Pre-Law and the professional health sciences Career Tracks of Dental Hygiene; Dentistry; Health Information Management; Medical Technology; Medicine; Occupational Therapy; Optometry; Pharmacy; Physical Therapy; and Physician Assistant. (The Career Tracks of Pre-Athletic Training, Pre-Occupational Therapy, Pre-Physical Therapy, and Pre-Physician Assistant are also available to students in the College of Education. The pre-veterinary Career Track is available to students in the School of Agriculture, and the Lower-Level Nursing career track is through the School of Nursing and the College of Interdisciplinary Studies)

Students in the Professional Health Sciences Career Tracks must take certain courses required by the professional school while at TTU, but they can do so while pursuing almost any major. However, it is suggested that students in the Dentistry, Medicine, Optometry, Physician Assistant and Pharmacy career tracks either major in Biology or Chemistry, to ensure that they complete the pre-requisite courses for admission to professional school. To further assist these students, a concentration in Health Sciences is available within the Biology major, and concentrations in Health Science Chemistry and Biochemistry are available within the Chemistry major.

Students in the Medicine, Dentistry, Pharmacy, Optometry, Physician Assistant, Occupational Therapy, Physical Therapy, Dental Hygiene, Medical Technology and Health Information Management Career Tracks are advised in the Professional Health Science Career Track Advising Office in LSC 1110 led by Ann Marie Carrick (ACarrick@tntech.edu) and other faculty associated with the program.

Students in the pre-law Career Track have no fixed curricular requirements, but law schools recommend they major in a discipline known for its rigor in analytical thinking and communication. Pre-law students are advised by a team of professors–in Business, English, History, Political Science, and Sociology–led by Associate Professor Lori Maxwell (lmmaxwell@tntech.edu) of the Sociology and Political Science Department.

Internship in Technology and Community Development

This internship program is designed for the student who is completing a bachelor's degree program that does not include a significant application of current computer technologies to "real-world" problems and needs. During three of the student's last four semesters in a major program in the College of Arts and Sciences at Tennessee Tech, he or she will register for CAS 4910, CAS 4920, and CAS 4930, in that order, for one semester each, and not simultaneously. A certificate is awarded upon completion of all three courses, each with a passing grade.

Graduate Programs

Graduate curricula lead to the Master of Science degree in biology, chemistry, and mathematics, the Master of Arts degree in English, and the Doctor of Philosophy degree in Environmental Sciences. For details, consult the TTU Graduate Studies office.

Teacher Licensure

Students may major in the College of Arts and Sciences and work towards teacher licensure, although in some cases they may be required to earn more than 120 hours.

For more information consult the College of Arts and Sciences web page: www.tntech.edu/cas/.

College of Arts and Sciences Student Success Center

Deborah K. Allen, Director/Advisor
Advisors: Jennifer Dyer Clark, Laura Roberson

The Student Success Center (CAS SSC) serves undergraduate Arts and Sciences majors sophomore through graduation. Advisors within the CAS SSC assist students to navigate the curriculum within their chosen major and comply with University requirements. In addition, the CAS SSC acts as a resource for students and faculty who have questions.

The SSC is committed to guiding students as they progress in their education by providing individual academic advising. Students will receive assistance with selecting general education courses, basic major requirements, choosing appropriate degree programs and career paths, and help in solving problems that could cause them to be unsuccessful academically. The following majors are advised in the College of Arts and Sciences Student Success Center: Earth Sciences, History, International Business and Cultures, Mathematics, Political Sciences, and Sociology. (Departments within the College of Arts and Sciences not listed here are advised by faculty within those Departments).

Programs

HUM-MIN - Humanities Minor

Program Overview

Program Long Title
Humanities Minor

College/School
Arts and Sciences

Department(s)
College of Arts and Sciences

Requirements

Simple Requirements

Minor in Humanities (HUM)

A minor in Humanities consists of any combination of 15 semester hours chosen from Art (ART), English (ENGL), French (FREN), GERMAN (GERM), Music (MUS), Philosophy (PHIL), Spanish (SPAN), or Theatre (THEA).

Note: ENGL 1010 and ENGL 1020 do not count toward a humanities minor.

PHIL-MIN - Philosophy Minor

Program Overview

Program Long Title
Philosophy Minor

College/School
Arts and Sciences

Department(s)
College of Arts and Sciences

Requirements

Simple Requirements

Minor in Philosophy (PHIL)

Philosophy courses are designed to help students acquire appreciation for the values and modes of reflection appropriate for the philosophical mind. They seek to stimulate interest in the ultimate human questions and to help students understand the proposed answers to those questions given by thinkers across the centuries. A baccalaureate minor is available and is especially appropriate for those interested in the humanities, the social sciences, and the professions.

A minor in Philosophy consists of 15 hours in PHIL courses (six hours must be at the 3000-4000 level).

SCIE-MIN - Science Minor

Program Overview

Program Long Title
Science Minor

College/School
Arts and Sciences

Department(s)
College of Arts and Sciences

Requirements

Simple Requirements

Minor in Science (SCIE)

A minor in Science consists of any combination of 15 semester hours chosen from Astronomy (ASTR), Biology (BIOL), Chemistry (CHEM), Geology (GEOL), or Physics (PHYS).

SOSC-MIN - Social Science Minor

Program Overview

Program Long Title
Social Science Minor

College/School
Arts and Sciences

Department(s)
College of Arts and Sciences

Requirements

Simple Requirements

Minor in Social Science (SOSC)

Consists of any combination of 15 semester hours chosen from:

Criminal Justice (CJ), Economics (ECON), Geography (GEOG), History (HIST), Psychology (PSY), Political Science (POLS), and Sociology(SOC).

Courses

Course Information

Course Title
Intern-Tech/Comm Devlpmnt I

Academic Level (Course Level)
Undergraduate

Course Subject Code
CAS

Course Number
4910

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
Prerequisite: Junior standing or above. From media tutorials (CD-ROM, videotape, etc.), personal tutorials, and workshops, the student learns at least three state-of-the-art applications of current computer technologies to community development projects. Student must sign a written intention to complete CAS 4910, 4920, and 4930. A-F grading.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing or above.

Course Information

Course Title
Intern-Tech/Comm Develop II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CAS

Course Number
4920

Credit Hours

Credit Hours:
2

Lab Hours

Min:
4

Course Description
Prerequisite: CAS 4910 or consent of the supervisor. The student collaborates with others in a workshop setting to practice at least three state-of-the-art applications of current computer technologies to community development projects. A-F grading.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CAS 4910 or consent of the supervisor.

Course Information

Course Title
Intern-Tech/Comm Develop III

Academic Level (Course Level)
Undergraduate

Course Subject Code
CAS

Course Number
4930

Credit Hours

Credit Hours:
2

Credit Hours:
3

Lab Hours

Min:
4

Max:
6

Course Description
Lab. 4-6. Credit 2-3.Prerequisite: CAS 4910 and CAS 4920 or consent of the supervisor. The student completes a community development project, or a substantial, definable part of a project, based on at least three state-of-the-art applications of current computer technologies. A-F grading.

College/School
Arts and Sciences

Course Information

Course Title
First Year Connections

Academic Level (Course Level)
Undergraduate

Course Subject Code
MSCI

Course Number
1020

Credit Hours

Credit Hours:
1

Other Hours

Min:
2

Course Description
This course is intended as a bridge course for those students entering TTU from high school and majoring in mathematics and the various science disciplines within the College of Arts and Sciences. The course is designed to strengthen the student's connection to TTU, enhance skills needed for academic success, and foster appreciation for the multidisciplinary nature of addressing real-world problems. This course emphasizes critical thinking in both academic and non-academic contexts by including significant elements of group work in problem-based learning activities.

College/School
Arts and Sciences

Course Information

Course Title
First-Year Connections

Academic Level (Course Level)
Undergraduate

Course Subject Code
UNIV

Course Number
1020

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Engages students in meaningful academic and nonacademic, in-class and out-of-class activities. Emphasizes ethical behavior and the use of critical thinking in the formation of academic and social goals and support groups, and in self-management and study skills. Includes a creative inquiry project/activity which students should share.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Freshman Standing.

Course Information

Course Title
Introduction to Web Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
WEBD

Course Number
1500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is an introduction to the internet and its function as well as a hands-on workshop on how to build a basic webpage.

College/School
Arts and Sciences

Course Information

Course Title
Web Site Dsgn:Dynamic Sites

Academic Level (Course Level)
Undergraduate

Course Subject Code
WEBD

Course Number
2300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: WEBD 1500, CIW certification, evidence of having passed CIW, Exam ID0-410, or consent of the instructor. This course focuses on authoring sites, creating content, creating digital media, and effectively employing standards and technologies for effective site design.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
WEBD 1500, CIW certification, evidence of having passed CIW, Exam ID0-410, or consent of the instructor.

Course Information

Course Title
Rhetoric and the Internet

Academic Level (Course Level)
Undergraduate

Course Subject Code
WEBD

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL1020. Instruction in web site analysis and document design, including background in rhetorical theory and principles.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1020.

Course Information

Course Title
Info Design in the Professions

Academic Level (Course Level)
Undergraduate

Course Subject Code
WEBD

Course Number
3700

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 3250 or PC 3250. Practical experience in the field of information design: a specialized field in which complex information is presented clearly and efficiently to its intended audience. Students will study the design principles used to develop both print and web documents and learn about the technologies used to develop and publish such documents.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 3250 or PC 3250.

Course Information

Course Title
Advanced Web Page Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
WEBD

Course Number
4950

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PC 2300. The development of web pages as documents using advanced tools.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
WEBD 2300.

Course Information

Course Title
Seminar in Web Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
WEBD

Course Number
4975

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Integrative course focusing on major concepts of Web Design.

College/School
Arts and Sciences

Course Information

Course Title
Internship in Web Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
WEBD

Course Number
4995

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: WEBD 4950. Part-time employment in a professional or institutional situation related to web design. May be repeated twice for credits.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
WEBD 4950.

Communication & Media Department

Programs

COM-CS - Communication, Communication Studies Concentration, B.S.

Program Overview

Program Long Title
Communication, Communication Studies Concentration, B.S.

College/School
Emerging and Integrative Studies

Department(s)
Communication & Media

Degree Map

Degree Map Name
Degree Plan - Communication, Communication Studies Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- JOUR2200 - Mass Comm/Changing Society

Actual Credits 3

Requirement Select
- COMM1020 - Survey/Communication Studies

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Elective
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- COMM2025 - Fundamentals of Communication

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- JOUR1110 - Media and Social Institutions

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- JOUR1500 - Media Literacy in a Digital World

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Electives
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- COMM2075 - Organizational Communication

Actual Credits 3

Requirement Select
- COMM2090 - Interpersonal Communication

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- COMM3100 - Communication Theory

Actual Credits 3

Requirement Select
- JOUR3770 - Law of Journalism

Actual Credits 3

Requirement Select
- COMM3080 - Comm & Effective Team Work

Actual Credits 3

Requirement Select
- COM/Communication Studies - Theory Electives

Actual Credits 3

Requirement Select
- COM/Communication Studies - Application Electives

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- COMM3200 - Research Methods in Comm.

Actual Credits 3

Requirement Select
- COMM3620 - Intercultural Communication

Actual Credits 3

Requirement Select
- COM/Communication Studies - Theory Electives

Actual Credits 3

Requirement Select
- JOUR3400 - Intro to Broadcast Journalism
  OR
- JOUR3460 - Intro to Public Relations
  OR
- JOUR3750 - History of Journalism

Actual Credits 3

Requirement Select
- Elective
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- COMM4630 - Persuasion

Actual Credits 3

Requirement Select
- COM/Communication Studies - Theory Electives

Actual Credits 3

Requirement Select
- COM/Communication Studies - Application Electives

Actual Credits 3

Requirement Select
- Electives
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- COMM4620 - Advanced Public Speaking

Actual Credits 3

Requirement Select
- COM/Communication Studies - Theory Electives

Actual Credits 3

Requirement Select
- COM/Communication Studies - Application Electives

Actual Credits 3

Requirement Select
- Electives
  (Generic)

Actual Credits 6

Requirement Select

- Elective course to be selected in consultation with academic advisor. 3 Theory Electives. Students may choose from the following: COMM 3000, COMM/JOUR 3040, COMM 3120, COMM 4420, COMM 4430, COMM 4440, COMM 4601, COMM 4602, COMM 4603, COMM 4900, COMM 4901, JOUR 3460, JOUR 3750, JOUR 4460, LIST 3500, LIST 4710. 4 Application Electives. Students may choose from the following: COMM 2800, COMM/JOUR 3030, COMM 3080, COMM 3130, COMM 3400, COMM 3630, COMM 4540, COMM 4550, COMM 4601, COMM 4602, COMM 4603, COMM 4853, COMM 4856, COMM 4900, COMM 4901, JOUR 3400, JOUR 3420, JOUR 3470, JOUR 3480, JOUR 4030. (Generic)

Actual Credits -

COM-JOUR - Communication, Journalism Concentration, News Editorial Option, B.S.

Program Overview

Program Long Title

Communication, Journalism Concentration, News Editorial Option, B.S.

College/School

Emerging and Integrative Studies

Department(s)

Communication & Media

Degree Map

Degree Map Name

Degree Map - Communication, Journalism Concentration, New Editorial Option, B.S.

Total Degree Map Credits

120

Degree Map Effective Catalog Year

2627 -

Year	Semester	Actual Credits
Freshman Year	Fall	14

Requirement Select

- Elective Credit (1 credit) (Generic)

Actual Credits 1

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- JOUR2200 - Mass Comm/Changing Society

Actual Credits 3

Requirement Select

- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Spring	16

Requirement Select

- COMM2025 - Fundamentals of Communication

Actual Credits 3

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- JOUR1110 - Media and Social Institutions

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- JOUR1500 - Media Literacy in a Digital World

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Fall	15

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- JOUR2220 - News Reporting & Copy Editing

Actual Credits 3

Requirement Select
- JOUR3350 - News Production and Design

Actual Credits 3

Requirement Select
- JOUR3460 - Intro to Public Relations

Actual Credits 3

Requirement Select
- JOUR3740 - Advertising Copy & Layout

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring	15

Requirement Select
- JOUR3500 - Visual Storytelling

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- POLS1030 - American Government

Actual Credits 3

Requirement Select
- COMM2090 - Interpersonal Communication

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Fall	15

Requirement Select
- COMM3100 - Communication Theory

Actual Credits 3

Requirement Select
- COMM3620 - Intercultural Communication

Actual Credits 3

Requirement Select
- JOUR3750 - History of Journalism

Actual Credits 3

Requirement Select
- COM/Journalism - Agricultural Communication
  OR
- COM/Journalism - Digital Multimedia Production
  OR
- COM/Journalism - Environmental Communication
  OR
- COM/Journalism - Event Planning
  OR
- COM/Journalism - Literature
  OR
- COM/Journalism - Sports Broadcasting
  OR
- COM/Journalism - Visual Communication
  OR
- COM/Journalism - Writing Fiction and Non-Fiction
  OR
- COM/Journalism-Film and Screen Studies
  OR
- COM/Journalism-Public Affairs & Government

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring	15

Requirement Select
- COMM3200 - Research Methods in Comm.

Actual Credits 3

Requirement Select

- JOUR3770 - Law of Journalism

Actual Credits 3

Requirement Select

- COM/Journalism - Agricultural Communication
  OR
- COM/Journalism - Digital Multimedia Production
  OR
- COM/Journalism - Environmental Communication
  OR
- COM/Journalism - Event Planning
  OR
- COM/Journalism - Literature
  OR
- COM/Journalism - Sports Broadcasting
  OR
- COM/Journalism - Visual Communication
  OR
- COM/Journalism - Writing Fiction and Non-Fiction
  OR
- COM/Journalism-Film and Screen Studies
  OR
- COM/Journalism-Public Affairs & Government

Actual Credits 3

Requirement Select

- JOUR3400 - Intro to Broadcast Journalism

Actual Credits 3

Requirement Select

- Upper Division Social Science Elective (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Fall	15

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- JOUR4820 - Advanced Reporting

Actual Credits 3

Requirement Select

- COM/Journalism - Agricultural Communication
  OR
- COM/Journalism - Digital Multimedia Production
  OR
- COM/Journalism - Environmental Communication
  OR
- COM/Journalism - Event Planning
  OR
- COM/Journalism - Literature
  OR
- COM/Journalism - Sports Broadcasting
  OR
- COM/Journalism - Visual Communication
  OR
- COM/Journalism - Writing Fiction and Non-Fiction
  OR
- COM/Journalism-Film and Screen Studies
  OR
- COM/Journalism-Public Affairs & Government

Actual Credits 3

Requirement Select

- JOUR3420 - Podcasting
  OR
- JOUR3480 - Social Media Management
  OR
- JOUR3370 - Fundamentals: Photojournalism

Actual Credits 3

Requirement Select

- Upper division Social Science elective (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	15

Requirement Select

- JOUR4710 - Literary Journalism
  OR
- JOUR4830 - Feature Writing

Actual Credits 3

Requirement Select

- JOUR4360 - Magazine Production/Dsgn

Actual Credits 3

Requirement Select

- JOUR4930 - Advanced Copy Editing

Actual Credits 3

Requirement Select

- COM/Journalism - Agricultural Communication
  OR
- COM/Journalism - Digital Multimedia Production
  OR
- COM/Journalism - Environmental Communication
  OR
- COM/Journalism - Event Planning
  OR
- COM/Journalism - Literature
  OR
- COM/Journalism - Sports Broadcasting
  OR
- COM/Journalism - Visual Communication
  OR
- COM/Journalism - Writing Fiction and Non-Fiction
  OR
- COM/Journalism-Film and Screen Studies
  OR
- COM/Journalism-Public Affairs & Government

Actual Credits 3

Requirement Select

- Elective credit (3 credits)
  (Generic)

Actual Credits 3

Requirement Select

- Emphasis Area. Choose 12 hours of courses from one of the options (A-L) below. All 12 hours must be from the same emphasis area. A. Agricultural Communication: AGBE 2010, AGBE 2100, AGED 4150 (5150), AGHE 4600, JOUR 3420, JOUR 3480, JOUR 4853 (5853), JOUR 4856 (5856), JOUR 4859 (5859). B. Digital Multimedia Production: COMM 3000, COMM 3120, COMM 4440, JOUR 3370, JOUR 3400, JOUR 3420, JOUR 3480, JOUR 3500, JOUR 4500 (5500), JOUR 4853 (5853). C. Environmental Communication: AGBE 2010, AGBE 4120 (5120), BIOL 3120, ESS 1100, ESS 3000, ESS 3710, ESS 4100, ESS 4110, GEOG 2100, GEOL 1045, GEOL 3550, HIST 3900, SOC 3600, JOUR 3420, JOUR 3480, JOUR 4853 (5853), JOUR 4856 (5856), JOUR 4859 (5859). D. Event Planning: COMM/JOUR 3030, COMM/JOUR 3040, COMM3080, JOUR 3480, JOUR 4030 (5030) or JOUR 4853 (5853). E. Film and Screen Studies: COMM 3120, FILM 3300-3309 (1), HIST 4400-4409 (1), JOUR3120, JOUR 3500, JOUR 4500 (5500), JOUR 4853 (5843), POLS 4430, THEA 3600. F. Integrated Marketing Communication: BMGT 3510, COMM 4630, JOUR 3420, JOUR 3480, JOUR 3500, JOUR 4500 (5500), JOUR 4853 (5853) /4856 (5856) /4859 (5859), MKT 3400, MKT 3430, MKT 4200, MKT 4530, MKT 4730. G. Literature: ENGL 3500, ENGL 3600, ENGL 4111, ENGL (THEA) 4121, ENGL 4130, ENGL 4140, ENGL 4210, ENGL 4221, ENGL 4231, ENGL 4240, ENGL 4250, ENGL 4310, ENGL 4320, ENGL 4330, ENGL 4340, ENGL 4610, ENGL 4620, ENGL 4630, ENGL 4712, ENGL 4713, ENGL 4720, ENGL 4731, ENGL 4751, ENGL 4810, ENGL 4820, ENGL 4830, ENGL 4840, ENGL 4911, ENGL 4921, ENGL 4931. H. Organizational Communication: BMGT 3510, COMM 2075, COMM 2800, COMM 3000, COMM (JOUR) 3030, COMM 3080, COMM 4420, COMM 4620, COMM 4630 (5630), JOUR 3420, JOUR 3480, JOUR 3500, JOUR 4500, JOUR 4853 (5853) /4856 (5856) /4859 (5859). I. Public Affairs and Government: COMM 2300, COMM 4540, COMM 4550, COMM 4630, JOUR 3400, JOUR 3470, JOUR 4853 (5843), POLS 1030, POLS 1100, POLS 3020, POLS 3140, POLS 3200, POLS 3330, POLS 3670. J. Sports Broadcasting: EXPW 2170, EXPW 3180, EXPW 3300, EXPW 4171, EXPW 4540, EXPW 4550, JOUR 3370, JOUR 3400, JOUR3420, JOUR 3480, JOUR 3500, JOUR 4500 (5500), JOUR 4853 (5853), JOUR 4856 (5856), JOUR 4859 (5859). K. Visual Communication: ART 1250, ART 2210, ART 2220, COMM 3120, COMM 4440, JOUR 3370, JOUR 3480, JOUR 4853 (5853). L. Writing—Fiction and Non-Fiction: ENGL 2400, ENGL 4430, ENGL 4440, ENGL 4450, ENGL 4531, JOUR 4870 (5870), JOUR 4871 (5871), JOUR 4872 (5872).
  (Generic)

Actual Credits -

COM-JOUR - Communication, Journalism Concentration, Public Relations Option, B.S.

Program Overview

Program Long Title
Communication, Journalism Concentration, Public Relations Option, B.S.

College/School
Emerging and Integrative Studies

Department(s)
Communication & Media

Degree Map

Degree Map Name
Degree Map - Communication, Journalism Concentration, Public Relations Option, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	Fall	14

Requirement Select
- Elective Credit (1 credit) (Generic)

Actual Credits 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- JOUR2200 - Mass Comm/Changing Society

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Spring	16

Requirement Select
- COMM2025 - Fundamentals of Communication

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- JOUR1500 - Media Literacy in a Digital World

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- JOUR1110 - Media and Social Institutions

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Fall	15

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- JOUR2220 - News Reporting & Copy Editing

Actual Credits 3

Requirement Select
- JOUR3350 - News Production and Design

Actual Credits 3

Requirement Select
- JOUR3460 - Intro to Public Relations

Actual Credits 3

Requirement Select
- JOUR3740 - Advertising Copy & Layout

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring	15

Requirement Select
- COMM2090 - Interpersonal Communication

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Requirement Select
- JOUR3500 - Visual Storytelling

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Fall	15

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- COMM3100 - Communication Theory

Actual Credits 3

Requirement Select
- COMM3620 - Intercultural Communication

Actual Credits 3

Requirement Select
- JOUR3750 - History of Journalism

Actual Credits 3

Requirement Select
- COM/Journalism - Agricultural Communication
  OR
- COM/Journalism - Digital Multimedia Production
  OR
- COM/Journalism - Environmental Communication
  OR
- COM/Journalism - Event Planning
  OR
- COM/Journalism - Literature
  OR
- COM/Journalism - Sports Broadcasting
  OR
- COM/Journalism - Visual Communication
  OR
- COM/Journalism - Writing Fiction and Non-Fiction
  OR
- COM/Journalism-Film and Screen Studies
  OR
- COM/Journalism-Public Affairs & Government

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring	15

Requirement Select
- COMM3200 - Research Methods in Comm.

Actual Credits 3

Requirement Select
- JOUR3770 - Law of Journalism

Actual Credits 3

Requirement Select
- COM/Journalism - Agricultural Communication
  OR
- COM/Journalism - Digital Multimedia Production
  OR
- COM/Journalism - Environmental Communication
  OR
- COM/Journalism - Event Planning
  OR
- COM/Journalism - Literature
  OR
- COM/Journalism - Sports Broadcasting
  OR
- COM/Journalism - Visual Communication
  OR
- COM/Journalism - Writing Fiction and Non-Fiction
  OR
- COM/Journalism-Film and Screen Studies
  OR
- COM/Journalism-Public Affairs & Government

Actual Credits 3

Requirement Select
- Electives
  (Generic)

Actual Credits 3

Requirement Select
- JOUR3470 - Public Rel. Writing/Production

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Fall	15

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- COM/Journalism - Agricultural Communication
  OR
- COM/Journalism - Digital Multimedia Production
  OR
- COM/Journalism - Environmental Communication
  OR
- COM/Journalism - Event Planning
  OR
- COM/Journalism - Literature
  OR
- COM/Journalism - Sports Broadcasting
  OR
- COM/Journalism - Visual Communication
  OR
- COM/Journalism - Writing Fiction and Non-Fiction
  OR
- COM/Journalism-Film and Screen Studies
  OR
- COM/Journalism-Public Affairs & Government

Actual Credits 3

Requirement Select

- Elective Credit (3 credits)
  (Generic)

Actual Credits 3

Requirement Select

- JOUR3420 - Podcasting
  OR
- JOUR3480 - Social Media Management
  OR
- JOUR3370 - Fundamentals: Photojournalism

Actual Credits 3

Requirement Select

- Upper division Social Science elective
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	15

Requirement Select

- JOUR4710 - Literary Journalism
  OR
- JOUR4830 - Feature Writing

Actual Credits 3

Requirement Select

- JOUR4360 - Magazine Production/Dsgn

Actual Credits 3

Requirement Select

- JOUR4930 - Advanced Copy Editing

Actual Credits 3

Requirement Select

- COM/Journalism - Agricultural Communication
  OR
- COM/Journalism - Digital Multimedia Production
  OR
- COM/Journalism - Environmental Communication
  OR
- COM/Journalism - Event Planning
  OR
- COM/Journalism - Literature
  OR
- COM/Journalism - Sports Broadcasting
  OR
- COM/Journalism - Visual Communication
  OR
- COM/Journalism - Writing Fiction and Non-Fiction
  OR
- COM/Journalism-Film and Screen Studies
  OR
- COM/Journalism-Public Affairs & Government

Actual Credits 3

Requirement Select

- JOUR4460 - Pub Relations-Cases/Pract

Actual Credits 3

Requirement Select

- Emphasis Area. Choose 12 hours of courses from one of the options (A-L) below. All 12 hours must be from the same emphasis area. A. Agricultural Communication: AGBE 2010, AGBE 2100, AGED 4150 (5150), AGHE 4600, JOUR 3420, JOUR 3480, JOUR 4853 (5853), JOUR 4856 (5856), JOUR 4859 (5859). B. Digital Multimedia Production: COMM 3000, COMM 3120, COMM 4440, JOUR 3370, JOUR 3400, JOUR 3420, JOUR 3480, JOUR 3500, JOUR 4500 (5500), JOUR 4853 (5853). C. Environmental Communication: AGBE 2010, AGBE 4120 (5120), BIOL 3120, ESS 1100, ESS 3000, ESS 3710, ESS 4100, ESS 4110, GEOG 2100, GEOL 1045, GEOL 3550, HIST 3900, SOC 3600, JOUR 3420, JOUR 3480, JOUR 4853 (5853), JOUR 4856 (5856), JOUR 4859 (5859). D. Event Planning: COMM/JOUR 3030, COMM/JOUR 3040, COMM3080, JOUR 3480, JOUR 4030 (5030) or JOUR 4853 (5853). E. Film and Screen Studies: COMM 3120, FILM 3300-3309 (1), HIST 4400-4409 (1), JOUR3120, JOUR 3500, JOUR 4500 (5500), JOUR 4853 (5843), POLS 4430, THEA 3600. F. Integrated Marketing Communication: BMGT 3510, COMM 4630, JOUR 3420, JOUR 3480, JOUR 3500, JOUR 4500 (5500), JOUR 4853 (5853) /4856 (5856) /4859 (5859), MKT 3400, MKT 3430, MKT 4200, MKT 4530, MKT 4730. G. Literature: ENGL 3500, ENGL 3600, ENGL 4111, ENGL (THEA) 4121, ENGL 4130, ENGL 4140, ENGL 4210, ENGL 4221, ENGL 4231, ENGL 4240, ENGL 4250, ENGL 4310, ENGL 4320, ENGL 4330, ENGL 4340, ENGL 4610, ENGL 4620, ENGL 4630, ENGL 4712, ENGL 4713, ENGL 4720, ENGL 4731, ENGL 4751, ENGL 4810, ENGL 4820, ENGL 4830, ENGL 4840, ENGL 4911, ENGL 4921, ENGL 4931. H. Organizational Communication: BMGT 3510, COMM 2075, COMM 2800, COMM 3000, COMM (JOUR) 3030, COMM 3080, COMM 4420, COMM 4620, COMM 4630 (5630), JOUR 3420, JOUR 3480, JOUR 3500, JOUR 4500, JOUR 4853 (5853) /4856 (5856) /4859 (5859). I. Public Affairs and Government: COMM 2300, COMM 4540, COMM 4550, COMM 4630, JOUR 3400, JOUR 3470, JOUR 4853 (5843), POLS 1030, POLS 1100, POLS 3020, POLS 3140, POLS 3200, POLS 3330, POLS 3670. J. Sports Broadcasting: EXPW 2170, EXPW 3180, EXPW 3300, EXPW 4171, EXPW 4540, EXPW 4550, JOUR 3370, JOUR 3400, JOUR3420, JOUR 3480, JOUR 3500, JOUR 4500 (5500), JOUR 4853 (5853), JOUR 4856 (5856), JOUR 4859 (5859). K. Visual Communication: ART 1250, ART 2210, ART 2220, COMM 3120, COMM 4440, JOUR 3370, JOUR 3480, JOUR 4853 (5853). L. Writing—Fiction and Non-Fiction: ENGL 2400, ENGL 4430, ENGL 4440, ENGL 4450, ENGL 4531, JOUR 4870 (5870), JOUR 4871 (5871), JOUR 4872 (5872). (Generic)

Actual Credits -

CS-MIN - Communication Studies Minor

Program Overview

Program Long Title
Communication Studies Minor

College/School
Emerging and Integrative Studies

Department(s)
Communication, Communication & Media

Requirements

Simple Requirements

Communication Studies Minor

Type
Completion Requirement

Communication Studies (CS) Minor

Minor in Communication Studies (CS)

A minor in Communication Studies will consist of:

COMM 2025 - Fundamentals of Communication Credit: 3. or PC 2500 - Communicating in the Professions Credit: 3.

and:

12 additional credit hours offered by the Communication Studies Program - six credit hours must be upper division (3000 and above).

EPM-MIN - Event Planning, Promotion and Management Minor

Program Overview

Program Long Title
Event Planning, Promotion and Management Minor

College/School
Emerging and Integrative Studies

Department(s)
Communication & Media

Requirements

Simple Requirements

Event Planning, Promotion and Management Minor

Type
Completion Requirement

Event Planning, Promotion and Management (EPM) Minor

Curriculum:

9 Hours from the Following:

- COMM 3030/JOUR 3030 - Principles of Event Planning Credit: 3.
- COMM 3040/JJOUR 3040 - Event Planning and Risk Management Credit: 3.
- COMM 4030 (5030)/JOUR 4030 (5030) - Field Experience in Event Management and Promotion Credit: 3 or COMM 4853/ JOUR 4853 (5853) - Internship (Pre-Approved by Communication Department) Credit: 3

6 Hours from the Following:

- COMM 2090 - Interpersonal Communication Credit: 3.
- COMM 3620 - Intercultural Communication Credit: 3.
- COMM 3080 - Communication and Effective Team Work Credit: 3. or BMGT 3720 - Business Communication I Credit: 3. or BMGT 4410 (5410) - Conflict Management and Negotiation Credit: 3. or COMM 4410 Conflict Resolution and Negotiation, Credit: 3 or LIST 3410 - Team Building and Workplace Dynamics Credit: 3. or LIST 4710 - Workplace Conflict and Resolution Credit: 3. or PSY 3410 - Group Dynamics Credit: 3.
- ACCT 2120 - Principles of Accounting II Credit: 3. or ACCT 3720 - Survey of Accounting Credit: 3.
- HEC 3350 - Business Aspects of the Design Industry Credit: 3.
- JOUR 3460 - Introduction to Public Relations Credit: 3. JOUR 3470 - Public Relations Writing Credit: 3.
- JOUR 4460 (5460) - Public Relations--Cases and Practices Credit: 3

Note: Substitutions must be approved by the chair of the Communication Department.

FILM-MIN - Film and Screen Studies

Program Overview

Program Long Title
Film and Screen Studies

College/School
Emerging and Integrative Studies

Department(s)
Communication & Media

Requirements

Simple Requirements

Minor in Film and Screen Studies

Type
Completion Requirement

Additional Comments:
Required Classes (6 hours)

JOUR 3500 Visual Storytelling

and

ENGL 2200 Intro to Film Studies

or

FILM 2300 Introduction to Screen Studies

Elective Classes (9 hours)

COMM 3120 Visual Communication/Rhetoric

FILM 3300-3309 Special Topics in Film Studies

HIST 4400-4409 Film Studies

JOUR 3120 Film and American Culture

JOUR 4500 Advanced Visual Storytelling

POPC 4050 Science Fiction and Fantasy

POLS 4430 Power and Privilege on Screen

ENGL 4983 African Film Studies

THEA 3600 Film Studies

Note: Substitutions must be approved by the chair of the Communication and Media Department.

JRNL-MIN - Journalism Minor

Program Overview

Program Long Title
Journalism Minor

College/School
Emerging and Integrative Studies

Department(s)
Communication, Communication & Media

Requirements

Simple Requirements

Journalism Minor

Type
Completion Requirement

Journalism (JRNL) Minor

A minor in journalism will consist of a total of 15 hours and must include nine hours of upper-division journalism courses.

Curriculum:

The minor in journalism will consist of the following courses:

- JOUR 2200 - Mass Communication in a Changing Society Credit: 3.
- JOUR 2220 - News Reporting and Copy Editing Credit: 3.

Upper-Division Journalism Courses Students must take nine credit hours of additional upper division journalism courses.

At least one must be from the courses listed below:

- JOUR 3470 - Public Relations Writing Credit: 3. J
- JOUR 4710 (5710) - Literary Journalism Credit: 3.
- JOUR 4820 (5820) - Advanced Reporting Credit: 3.
- JOUR 4830 (5830) - Feature Writing Credit: 3.
- JOUR 4930 (5930) - Advanced Copy Editing Credit:

Courses

Course Information

Course Title
Survey/Communication Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
1020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Role of communication in society and education. Overview of topics germane to understanding effective communication.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Fundamentals of Communication

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
2025

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to the communication process, interpersonal communication, group discussion, and public speaking. Students are required to prepare and deliver speeches.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Organizational Communication

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
2075

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course introduces students to the theories and practices of communication within the work place. It covers various communication settings including interviewing, presentations, group work, meetings, and email.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Interpersonal Communication

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
2090

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: COMM 2025. This course examines basic verbal and nonverbal elements affecting communication between individuals in family, peer group, and work contexts. Students are presented with the principles, concepts, attitudes, skills, and techniques necessary for successful interaction in one-to-one settings. The main emphasis is placed on effective management of personal and professional relationships.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 2025

Course Information

Course Title
Rhetoric of Health & Medicine

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
2300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: None. This class provides students with the skills to both critically evaluate health and scientific information and craft effective messaging in these areas. This course will hone communication skills and provide students with the ability to write clearly and persuasively and provide relevant and valued skills for students who work or will work in healthcare.

College/School
Emerging and Integrative Studies

Syllabus
COMM 2300-Prop RHM syllabus.docx

Course Information

Course Title
Interviewing

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
2800

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course introduces students to the interpersonal communication aspects of the interviewing process. Students will learn the various types of interviews and their purpose. Students will plan and prepare interviews from the roles of the interviewee and interviewer.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Computer Mediated Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
3000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An examination of human communication achieved through computer technology. Analysis of how the use of electronic devices such as email, instant messaging, cell phones, internet, blogs, video games, etc. affects interpersonal and group dynamics.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Principles of Event Planning

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
3030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course introduces students to the theory and practices of event planning. This course will focus on the beginning preparation and planning for an event, the what and why behind the scenes and how effective planning occurs in this growing field.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Event Planning/Risk Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
3040

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is designed to develop students' understanding of risk management within even planning by identifying and analyzing potential risks, appropriate responses to them and strategies to manage them

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 3030, JOUR 3030 or consent of instructor.

Course Information

Course Title
Comm & Effective Team Work

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
3080

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This introductory course offers students a chance to learn about effective group process for decision-making and problem solving. Students will learn new and pertinent information about effectively communicating in teams, as well as practice these skills through team assignments throughout the semester.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Communication Theory

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
3100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Junior Status, or consent of instructor. Examination and application of the major theories of communication processes, including mass communication, intrapersonal, interpersonal, intercultural, rhetorical, organizational, and other approaches to the study of communication.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Junior Status, or consent of instructor.

Course Information

Course Title
Visual Communication/Rhetoric

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
3120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: Upper-division status or by permission of the instructor. The course introduces basic principles of critical perception and interpretation of the processes of visual communication/rhetoric in the mass media, fine arts, films, and photography.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Upper-division status or by permission of the instructor.

Course Information

Course Title
Speech Activities

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
3130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of instructor. For students interested in all forms of public speaking and contest work.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Research Methods in Comm.

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Junior status, or consent of instructor. An introduction to the diverse methods of research employed in the study of communication and how they connect to major theories in communication. This course focuses on quantitative and qualitative methods of research in communication, including content analysis, survey research, discourse analysis, rhetorical analyses, observational research, and interviewing.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Junior status, or consent of instructor.

Course Information

Course Title
Nonverbal Communication

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
3400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Currently enrolled in or completed SPCH 2410 or COMM 2025. This course will examine the theory, research, and application of nonverbal communication as it is used in personal and professional contexts. The usage, effects, and application of nonverbal communication in interpersonal relationships, the workplace, the classroom, the courtroom, and intercultural relationships will be examined.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite or corequisite:
COMM 2025.

Course Information

Course Title
Intercultural Communication

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
3620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Theoretical and practical ideas to prepare students for cross-cultural interactions. Emphasis on interpersonal, face-to-face intercultural communication in various domestic and international settings.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Discuss & Parliament Procedure

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
3630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Conduct of a meeting: panels, symposiums, and forums. Organization, planning, and participation in group discussion and conference.

College/School
Emerging and Integrative Studies

Field Experience in Event Management and Promotion

Course Information

Course Title
Field Exp/Event Mgmt & Promtn

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: COMM/JOUR 3030 and COMM/JOUR 3040 or consent of the instructor. This course is cross-listed with JOUR 4030 (5030). This course will provide students with the opportunity to implement skills learned to manage and promote an actual event, either in pairs or small groups.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 3030 (JOUR 3030) and COMM 3040 (JOUR 3040) or consent of instructor.

Course Information

Course Title
Adv Organizational Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Upper-division status in communication or by permission of the instructor. Approaches to the understanding of communicative cultures in modern organizations and their operant principles.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Upper-division status in communication or by permission of the instructor.

Course Information

Course Title
Adv Interpersonal Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: COMM 2090 or consent of instructor. Communications theory applied to informal and face-to-face situations.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 2090 or consent of instructor.

Course Information

Course Title
Semiotics

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4440

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Studies in the philosophy and principles of code systems and language theory, including a range of code systems from simple to complex.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Historic Amer Public Address

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4540

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is a critical survey of historic American public discourse from the founding of the nation to the end of WWII. Students will analyze historically significant speeches, their rhetorical design, and their influence on public opinion and policy.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Contemp Amer Public Address

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course covers public oratory from WWII to the present. Students will read some major speeches that marked important social and political events and will examine the speeches' influence on public belief and action.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics in Speech Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4601

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisites: Upper-division status; may be repeated to a maximum nine hours. Presentation of directed, individual research in selected topics in speech communication beyond regular course offerings. Topic will be specified at time of offering.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Note:
Upper-division status; may be repeated to a maximum nine hours.

Course Information

Course Title
Special Topics in Speech Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4602

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisites: Upper-division status; may be repeated to a maximum nine hours. Presentation of directed, individual research in selected topics in speech communication beyond regular course offerings. Topic will be specified at time of offering.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Note:
Upper-division status; may be repeated to a maximum nine hours.

Course Information

Course Title
Special Topics in Speech Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4603

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisites: Upper-division status; may be repeated to a maximum nine hours. Presentation of directed, individual research in selected topics in speech communication beyond regular course offerings. Topic will be specified at time of offering.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Note:
Upper-division status; may be repeated to a maximum nine hours.

Course Information

Course Title
Advanced Public Speaking

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: COMM 2025. Advanced oral communications as practiced from the platform, with emphasis on special types of speaking.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 2025.

Course Information

Course Title
Persuasion

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: COMM 2025 or consent of instructor. Promotes intellectual understanding and critical application of how individuals and groups influence the attitudes, beliefs, and behaviors of others.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 2025 or consent of instructor.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4853

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: COMM2025. A supervised experience in a professional or career setting including: Communication Pedagogy, Debate, Interpersonal, Organizational, Public Relations, and Public Speaking. Students may not take more than 6 hours total of the Internship toward degree requirements.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 2025

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4856

Credit Hours

Credit Hours:
6

Other Hours

Min:
6

Course Description
Prerequisite: COMM2025. A supervised experience in a professional or career setting including: Communication Pedagogy, Debate, Interpersonal, Organizational, Public Relations, and Public Speaking. Students may not take more than 6 hours total of the Internship toward degree requirements.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 2025.

Course Information

Course Title
Ind Study in Communication

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4900

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: COMM2025. Directed readings and research for students desiring to work on topics of individual interest beyond the course offerings. Students may not take more than 6 hours total of the Independent Study toward degree requirements.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 2025.

Course Information

Course Title
Ind Study in Communication

Academic Level (Course Level)
Undergraduate

Course Subject Code
COMM

Course Number
4901

Credit Hours

Credit Hours:
6

Other Hours

Min:
6

Repeatable for Credit:
Yes

Number Of Repeats:
3

Course Description
Prerequisite: COMM2025. Directed readings and research for students desiring to work on topics of individual interest beyond the course offerings. Students may not take more than 6 hours total of the Independent Study toward degree requirements

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 2025.

Course Information

Course Title
Introduction to Screen Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
FILM

Course Number
2300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course introduces fundamental concepts of film analysis while expanding toward contemporary screen cultures, including television, video games, mobile and social media, and digital platforms. Topics include spectatorship, interface, representation, interactivity, and the cultural, social, and political implications of screen environments.

College/School
Emerging and Integrative Studies

Syllabus
FILM2300 Syllabus Draft.docx

Course Information

Course Title
Special Topics in Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
FILM

Course Number
3300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: None. Introductory course on a selected topic, or interest area in film studies not covered in existing courses. Course may be repeated for credit under a different subtitle, up to six hours of credit.

College/School
Emerging and Integrative Studies

Syllabus
FILM3300 Sample Syllabus.docx

Course Information

Course Title
Special Topics in Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
FILM

Course Number
3302

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: None. Introductory course on a selected topic, or interest area in film studies not covered in existing courses. Course may be repeated for credit under a different subtitle, up to six hours of credit.

College/School
Emerging and Integrative Studies

Syllabus
FILM3300 Sample Syllabus.docx

Course Information

Course Title
Special Topics in Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
FILM

Course Number
3301

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: None. Introductory course on a selected topic, or interest area in film studies not covered in existing courses. Course may be repeated for credit under a different subtitle, up to six hours of credit.

College/School
Emerging and Integrative Studies

Syllabus
FILM3300 Sample Syllabus.docx

Course Information

Course Title
Special Topics in Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
FILM

Course Number
3303

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: None. Introductory course on a selected topic, or interest area in film studies not covered in existing courses. Course may be repeated for credit under a different subtitle, up to six hours of credit.

College/School
Emerging and Integrative Studies

Syllabus
FILM3300 Sample Syllabus.docx

Course Information

Course Title
Special Topics in Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
FILM

Course Number
3304

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: None. Introductory course on a selected topic, or interest area in film studies not covered in existing courses. Course may be repeated for credit under a different subtitle, up to six hours of credit.

College/School
Emerging and Integrative Studies

Syllabus
FILM3300 Sample Syllabus.docx

Course Information

Course Title
Special Topics in Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
FILM

Course Number
3306

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: None. Introductory course on a selected topic, or interest area in film studies not covered in existing courses. Course may be repeated for credit under a different subtitle, up to six hours of credit.

College/School
Emerging and Integrative Studies

Syllabus
FILM3300 Sample Syllabus.docx

Course Information

Course Title
Special Topics in Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
FILM

Course Number
3305

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: None. Introductory course on a selected topic, or interest area in film studies not covered in existing courses. Course may be repeated for credit under a different subtitle, up to six hours of credit.

College/School
Emerging and Integrative Studies

Syllabus
FILM3300 Sample Syllabus.docx

Course Information

Course Title
Special Topics in Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
FILM

Course Number
3307

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: None. Introductory course on a selected topic, or interest area in film studies not covered in existing courses. Course may be repeated for credit under a different subtitle, up to six hours of credit.

College/School
Emerging and Integrative Studies

Syllabus
FILM3300 Sample Syllabus.docx

Course Information

Course Title
Special Topics in Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
FILM

Course Number
3308

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: None. Introductory course on a selected topic, or interest area in film studies not covered in existing courses. Course may be repeated for credit under a different subtitle, up to six hours of credit.

College/School
Emerging and Integrative Studies

Syllabus
FILM3300 Sample Syllabus.docx

Course Information

Course Title
Special Topics in Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
FILM

Course Number
3309

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: None. Introductory course on a selected topic, or interest area in film studies not covered in existing courses. Course may be repeated for credit under a different subtitle, up to six hours of credit.

College/School
Emerging and Integrative Studies

Syllabus
FILM3300 Sample Syllabus.docx

Course Information

Course Title
Media and Social Institutions

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
1110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course will explore the historical development, current status, and impact of media from a consumer's point of view with the goal of improving media literacy skills. Students develop global perspectives by encountering issues dealing with the relationship of the media to government, education, politics, economics, religion, culture, society, family, and the individual.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Media and Popular Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
1300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course is an introduction to theories and approaches for studying media and popular culture. Students will explore what popular culture is, how it is created through human and media interactions, how mass communication contributes to the social construction of reality, and the influence of United States' culture on the world.

College/School
Emerging and Integrative Studies

Syllabus
JOUR 1300 Media & Popular Culture Syllabus.docx

Media Literacy in a Digital World

Course Information

Course Title
Media Literacy in Digital Wrld

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
1500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course examines how to critically evaluate media messages in order to be responsible media consumers and producers. Students will analyze misinformation and disinformation, their social impact, and how to stop their spread, as well as explore ethical and legal issues surrounding privacy and intellectual property, and evaluate the influence of algorithms and artificial intelligence on media consumption.

College/School
Emerging and Integrative Studies

Syllabus
JOUR 1500 Media Literacy in a Digital World Syllabus.docx

Course Information

Course Title
Mass Comm/Changing Society

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Mass communications in a democracy. Trends in media, the government as friend and foe, legal problems, and the invasion of privacy. May include experience on the student media.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Media Production

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An introductory course that teaches students the basics of media production. Students will learn the principal skills and techniques needed to produce digital content using the media tools of photography, videography, audio production, and print/digital design and production. Topics covered in the course include podcasting, digital photography, video editing publication design, and online portfolio.

College/School
Emerging and Integrative Studies

Course Information

Course Title
News Reporting & Copy Editing

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. Basics of gathering and writing news. Introduction to copy editing and the Associated Press Stylebook. May include experiences on the student media.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200

Course Information

Course Title
Topics in Journalism and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2860

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Introductory seminar or lecture course on a selected topic, issue, or interest area in journalism and media not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Topics in Journalism and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2862

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Introductory seminar or lecture course on a selected topic, issue, or interest area in journalism and media not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Topics in Journalism and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2861

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Introductory seminar or lecture course on a selected topic, issue, or interest area in journalism and media not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Topics in Journalism and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2863

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Introductory seminar or lecture course on a selected topic, issue, or interest area in journalism and media not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Topics in Journalism and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2864

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Introductory seminar or lecture course on a selected topic, issue, or interest area in journalism and media not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Topics in Journalism and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2866

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Introductory seminar or lecture course on a selected topic, issue, or interest area in journalism and media not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Topics in Journalism and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2865

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Introductory seminar or lecture course on a selected topic, issue, or interest area in journalism and media not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Topics in Journalism and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2867

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Introductory seminar or lecture course on a selected topic, issue, or interest area in journalism and media not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Topics in Journalism and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2868

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Introductory seminar or lecture course on a selected topic, issue, or interest area in journalism and media not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Topics in Journalism and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
2869

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Introductory seminar or lecture course on a selected topic, issue, or interest area in journalism and media not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Principles of Event Planning

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course introduces students to the theory and practices of event planning. This course will focus on the beginning preparation and planning for an event, the what and why behind the scenes and how effective planning occurs in this growing field.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Event Planning/Risk Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3040

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is designed to develop students' understanding of risk management within even planning by identifying and analyzing potential risks, appropriate responses to them and strategies to manage them.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 3030, JOUR 3030 or consent of instructor.

Course Information

Course Title
Film and American Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course examines the relationship between American film and American culture from the early 20th century to the present. We will explore how film shapes and reflects evolving social values, political ideologies, identity, race, class, gender, and historical moments in the U.S. Through critical screenings, readings, and discussions, students will develop a deeper understanding of film as both art and cultural artifact.

College/School
Emerging and Integrative Studies

Syllabus
JOUR 3120 Film and American Culture Syllabus.docx

Course Information

Course Title
News Production and Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3350

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. Current trends in multimedia news production and design.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200.

Course Information

Course Title
Fundamentals: Photojournalism

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3370

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. An introduction to the technical, aesthetic and ethical aspects of digital photography with an emphasis on photojournalism and visual storytelling.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200,

Course Information

Course Title
Intro to Broadcast Journalism

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 2200 and JOUR 2220. Electronic media with emphasis on news writing for radio and television. May include experience on the campus radio.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200 and JOUR 2220.

Course Information

Course Title
Podcasting

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 2200. This course introduces the basics of podcasting: audio/visual storytelling, live interviewing, audio/video editing and publishing. Students will use royalty-free music, record natural sound for audio/video storytelling, and interview guests for podcasts.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200.

Course Information

Course Title
Intro to Public Relations

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3460

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 2200 or consent of instructor. Career opportunities in public relations. Historical, philosophical, and ethical aspects.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200 or consent of the instructor.

Course Information

Course Title
Public Rel. Writing/Production

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3470

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites JOUR 2200, JOUR 2220 and JOUR 3460. Public relations writing and publication. This course will examine how public relations practitioners effectively tailor messages to reach specific audiences with intended messages using various media.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200, JOUR 2220 and JOUR 3460.

Course Information

Course Title
Social Media Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3480

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 1110 or JOUR 2200. This course explores the strategic and practical aspects of social media management. Best practices are emphasized for choosing social media platforms, using tools within platforms, creating content, engaging audiences, and utilizing content management software for measuring analytics.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 1110 or JOUR 2200.

Course Information

Course Title
Visual Storytelling

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Visual Storytelling explores the art and craft of telling compelling stories across multiple platforms, including text, photography, audio and video. Through a combination of lectures, hands-on workshops, and collaborative projects, students will learn how to conceptualize, create, and publish engaging stories that are both journalistic and creative in nature.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
No prerequisite.

Course Information

Course Title
Advertising Copy & Layout

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3740

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. Advertising in current publications with emphasis on trends in copy and layout.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200.

Course Information

Course Title
History of Journalism

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3750

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 2200 Mass Communication in a Changing Society. The history of the press from colonial times to the present. Emphasis on major trends, persons, events.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200.

Course Information

Course Title
Law of Journalism

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
3770

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 2200. The law of the press from colonial times to the present.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200.

Course Information

Course Title
Fld Exp:Event Mgmt/Promotion

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: COMM/JOUR 3030 and COMM/JOUR 3040, or permission of the instructor. This course will provide students with the opportunity to implement skills learned to manage and promote an actual event, either in pairs or small groups.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 3030 (JOUR 3030) and COMM 3040 (JOUR 3040) or consent of instructor.

Course Information

Course Title
Freelance Writing

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. Writing and marketing of feature stories, commentaries, and articles.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Magazine Production/Dsgn

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4360

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: JOUR 2200 or consent of the instructor. Current trends in magazine production and design.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200 or consent of instructor.

Course Information

Course Title
Pub Relations-Cases/Pract

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4460

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: JOUR 3460 and either JOUR 3350 or JOUR 4360(5360). Practical aspects of public relations emphasized. Case studies considered. Builds on knowledge and expertise acquired in JOUR 3460.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 3460 and either JOUR 3350 or JOUR 4360 (5360).

Course Information

Course Title
Advanced Visual Storytelling

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: JOUR 2200, JOUR 2220, a "C" or higher in JOUR 3500, or consent of instructor. A fast-paced course in content creation for the web and broadcast. May include experience on student media outlets. Associated Press style will be used.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200, JOUR 2220, a "C" or higher in JOUR 3500, or consent of instructor.

Course Information

Course Title
Literary Journalism

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequistites: JOUR 2200 and JOUR 2220. Instruction in the form of the literary essay -- both short and book length -- through both reading and writing literary essays. Course may be repeated for credit provided content is different.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200 and JOUR 2220.

Course Information

Course Title
Advanced Reporting

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4820

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 2220. Writing and reporting for the commercial media. Students may serve as reporters for the campus newspaper.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2220.

Course Information

Course Title
Feature Writing

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4830

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 2220. Recommended: JOUR 4820 (5820). Writing and marketing of feature stories, commentaries, and articles.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2220. Recommended: JOUR 4820 (5820).

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4840

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Senior standing or consent of instructor. Independent work in mass media research and report writing, or internship programs in print or electronic media, public relations, and other areas.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4853

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. Part-time or full-time employment in a business, industrial, or institutional communications setting related to student academic and career goals, such as news and sports reporting, radio and television broadcasting, podcasting, multimedia production, social media management, event planning, public relations, advertising, marketing, and strategic communication.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200 is a prerequisite for all other journalism courses.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4856

Credit Hours

Credit Hours:
6

Other Hours

Min:
6

Course Description
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. Part-time or full-time employment in a business, industrial, or institutional communications setting related to student academic and career goals, such as news and sports reporting, radio and television broadcasting, podcasting, multimedia production, social media management, event planning, public relations, advertising, marketing, and strategic communication.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200 is a prerequisite for all other journalism courses.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4859

Credit Hours

Credit Hours:
9

Other Hours

Min:
9

Course Description
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. Part-time or full-time employment in a business, industrial, or institutional communications setting related to student academic and career goals, such as news and sports reporting, radio and television broadcasting, podcasting, multimedia production, social media management, event planning, public relations, advertising, marketing, and strategic communication.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2200 is a prerequisite for all other journalism courses.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4860

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or Senior standing or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4862

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or Senior standing or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4861

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or Senior standing or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4863

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or Senior standing or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4864

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or Senior standing or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4866

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or Senior standing or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4865

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or Senior standing or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4867

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or Senior standing or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4868

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or Senior standing or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4869

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or Senior standing or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit

College/School
Emerging and Integrative Studies

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4870

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Senior standing or consent of instructor and JOUR 2200. Independent study of an approved topic (area) within mass media research and or writing related to student academic and career goals under the supervision of a member of the journalism faculty. Up to nine credit hours may be earned by independent study, as long as the content is different.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Senior standing or consent of instructor and JOUR 2200.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4871

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Senior standing or consent of instructor and JOUR 2200. Independent study of an approved topic (area) within mass media research and or writing related to student academic and career goals under the supervision of a member of the journalism faculty. Up to nine credit hours may be earned by independent study, as long as the content is different.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Senior standing or consent of instructor and JOUR 2200.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4872

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Senior standing or consent of instructor and JOUR 2200. Independent study of an approved topic (area) within mass media research and or writing related to student academic and career goals under the supervision of a member of the journalism faculty. Up to nine credit hours may be earned by independent study, as long as the content is different.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Senior standing or consent of instructor and JOUR 2200.

Course Information

Course Title
Advanced Copy Editing

Academic Level (Course Level)
Undergraduate

Course Subject Code
JOUR

Course Number
4930

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: JOUR 2220. Additional training in editing copy. Laboratory work may be required on the university student newspaper.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
JOUR 2220.

Computer Science Department

Professor Gannod, Chairperson, Stonecipher Distinguished Professor; Professor Eberle, Elizandro, Ghafoor, Skjellum, Talbert (Associate Chairperson, Interim Director of Cybersecurity Education, Research & Outreach Center); Associate Professor Hilal, Ismail, Rogers; Assistant Professor Altarawneh, Gupta, Nine, Pritom, Shannigrahi; Senior Lecturer Brown, Crockett; Lecturer Brummett, Burchfield, Kubiak, Strickler; Instructor Manicavasagam; Professor Emeritus Siraj, Kosa

The computer science curriculum is designed to educate students in the basic areas of computer science, including computer architecture, programming languages and operating systems, general approaches to problem solving and programming, as well as theoretical concepts dealing with models of computation and the design and analysis of algorithms. By appropriate choice of elective course work, the student may prepare for a career in software development for scientific/engineering applications, management decision support applications or graduate work in computer science. Graduates of the program are regularly recruited by industry, government and business for computing careers in a variety of areas including systems design and software engineering.

Our BS program is accredited by the Computing Accreditation Commission of ABET, https://www.abet.org. The Program Educational Objectives fall into four primary areas: professionalism, leadership, technical proficiency, and life-long learning.

- Professionalism: Our graduates will exhibit the clear communication, responsible teamwork, commitment to quality, personal self-organization, professional attitude, and ethics needed to engage in successful careers in industry, academia, and public service.
- Leadership: Our graduates will exhibit technical, personal, ethical, and professional leadership in their businesses, professions, and communities
- Technical Proficiency: Our graduates will exhibit the technical proficiency and problem-solving skills required to positively impact organizations, people, and processes at the local and global levels
- Life-long Learning: Our graduates will exhibit an ability to be self-motivated, life-long learners who adapt to new technologies, tools, and methodologies to maintain the ability to respond to the challenges of a changing environment.

Students may elect to pursue the core curriculum or choose one of three concentrations including Data Science and Artificial Intelligence, High Performance Computing, or Information Assurance and Cybersecurity as follows:

Data Science and Artificial Intelligence

The Data Science and Artificial Intelligence concentration (DSAI) equips students to solve real world problems by combining data analysis skills with computational techniques that enable computers to behave intelligently. Students in the DSAI concentration will learn the full data science lifecycle through classes and real-world projects that cover data management, statistical inference, data mining and machine learning algorithms, and data visualization. They will also learn advanced techniques for working with the large, diverse data that companies now rely on to improve decision making and automate business processes. Additionally, DSAI students will be equipped with a strong foundation in AI, the technology driving many of today's' scientific and business innovations. The concentration should be of interest to students who have an appreciation for the practical use of mathematical and scientific thinking and power of computing to understand and solve problems for business, research, and societal impact.

High Performance Computing

The High-Performance Computing concentration (HPC) enables students to study, understand, and develop parallel and distributed real-world applications that take advantage of current and emerging multi-core and GPU-based hardware as well as systems employing Internet of Things (IoT) and embedded devices. By combining the theory with hands-on, applied projects, the students will learn about the fundamentals of parallel and distributed computing and networking, and utilize them to solve real-world problems that are computationally intensive and/or involve big data sets, such as finding the next cutting-edge vaccines, accurately predicting the weather, analyzing large and diverse data for improved decision making, moving vast amounts of data across continents, and efficiently monitoring networked sensors. The students will learn parallel programming, distributed and cloud computing, and advanced networking. The concentration should be of interest to students attracted by complex, real-world problems and that enjoy building high performance applications. This concentration will equip students to apply computation in a practical way that will affect research and commerce and directly touches millions of people's lives.

Information Assurance and Cybersecurity

The Information Assurance and Cybersecurity concentration (IAC) prepares students to be the next generation of cyber defenders who can protect our cyberspace from adversarial actions. Students learn to solve real world problems in cybersecurity and privacy by applying computing skills, whether it is based in core cyber or software engineering or data analytics or distributed computing or any combination thereof. They can engage in cutting edge research addressing cybersecurity and privacy by multiple faculty in the department through funded grants. Students in the IAC concentration learn about cybersecurity and privacy basics, data, network and IT security, cryptographic applications, security in software and applications, along with specialized techniques such as reverse engineering, and malware analysis. The students also have opportunity to participate in information learning opportunities (such as hands-on peer learning with CTFs, offense and defense) facilitated by the Cybersecurity Education, Research and Outreach Center (CEROC). IAC students are encouraged to be member of one of the largest active clubs on campus that frequently engages in cybersecurity professional development activities. CEROC actively provides many service-learning opportunities to IAC students with community internal and external to the University. The concentration should be of interest to students who have an appreciation for security and privacy.

Programs

AI-BS - Artificial Intelligence, B.S.

Program Overview

Program Long Title
Artificial Intelligence, B.S.

College/School
Engineering

Department(s)
Computer Science

Requirements

Simple Requirements

Artificial Intelligence, B.S. - 120 hours

Type
Completion Requirement

Requirements List for Artificial Intelligence

Complete ALL of the following Courses:

- CSC1020 - Connections to Computing
- CSC1300 - Intro/Prob Solving-Comp Prog
- CSC1310 - Data Structures and Algorithms
- CSC2310 - Object-Oriented Prgrming/Dsgn
- CSC2510 - Intro to DevOps with Unix
- CSC2700 - Discrete Structures for CSC
- CSC2220 - Data Science & AI for Everyone
- CSC2400 - Design of Algorithms
- CSC3040 - Profsnlsm, Comm, Rsrch in Comp
- CSC3220 - Fundamentals of Data Science
- CSC3300 - Database Mgmt Systems
- CSC4760 - Parallel Programming
- CSC4610 - Software Engineering I
- CSC4200 - Computer Networks
- CSC4620 - Software Engineering II
- CSC4260 - Adv Data Sci & Applications
- AI3000 - AI 3000: Introduction to Artificial Intelligence and Machine Learning
- AI3100 - Human-Centered AI
- AI3200 - Machine Learning
- AI4200 - Deep Learning
- MATH1910 - Calculus I
- MATH2010 - Introduction to Linear Algebra
- MATH3070 - Statistical Methods I
  OR MATH3470 - Intro/Prob & Stats

Additional Requirements:

Upper Division Elective (3-4000 level) - 3 cr.

General Elective (2000-level or higher) -3 cr.

General Electives (8 cr.)

- CSC 1020 not required for transfer students with more than 12 hours and not included in the 120-hour degree requirement.
- Take at least one science sequence from BIOL 1113-BIOL 1123, BIOL 1113-BIOL 2310, CHEM 1110-CHEM 1120, GEOL 1040-GEOL 1045, PHYS 2010-PHYS 2020 or PHYS 2110-PHYS 2120.

Written and Oral Communication (9 cr.)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

Quantitative Reasoning and Analysis (3 cr.)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Requirement complete with MATH 1910.

Historical Foundations (6 cr.)

Earn at least 6 credits from the following:

- Historical Foundations (FFHF)

Humanities and Cultural Expression (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Social and Behavioral Science Electives (6. cr)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Scientific Reasoning (8 cr.)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)
- Take eight credits from BIOL 1113-BIOL 1123, BIOL 1113-BIOL 2310, CHEM 1110-CHEM 1120, GEOL 1040-GEOL 1045, PHYS 2010-PHYS 2020 or PHYS 2110-PHYS 2120.

Financial or Digital Literacy (3 cr.)

Complete ANY of the following Course Sets:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Artificial Intelligence, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	Fall	15

Requirement Select

- CSC1020 - Connections to Computing

Actual Credits 1

Requirement Select

- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select

- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- CSC 1020 not required for transfer students with more than 12 hours and not included in the 120-hour degree requirement.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Freshman Year	Spring	16

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Fall	16

Requirement Select
- CSC2310 - Object-Oriented Prgrming/Dsgn

Actual Credits 4

Requirement Select
- CSC2510 - Intro to DevOps with Unix

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- CSC2700 - Discrete Structures for CSC

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring	16

Requirement Select
- CSC2400 - Design of Algorithms

Actual Credits 3

Requirement Select
- CSC2220 - Data Science & AI for Everyone

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Requirement Select
- BIOL1113 - General Biology I
  OR
- BIOL1123 - General Biology II
  OR
- BIOL2310 - General Botany
  OR
- CHEM1110 - General Chemistry I
  OR
- CHEM1120 - General Chemistry II
  OR
- GEOL1040 - Physical Geology
  OR
- GEOL1045 - Earth Environ Resrces Soc
  OR
- PHYS2010 - Algebra-based Physics I
  OR
- PHYS2020 - Algebra-based Physics II
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits

Junior Year	Fall	15

Requirement Select
- CSC3300 - Database Mgmt Systems

Actual Credits 3

Requirement Select
- CSC3040 - Profsnlsm, Comm, Rsrch in Comp

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- CSC3220 - Fundamentals of Data Science

Actual Credits 3

Requirement Select
- AI3000 - AI 3000: Introduction to Artificial Intelligence and Machine Learning

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring	16

Requirement Select
- CSC4760 - Parallel Programming

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- AI3100 - Human-Centered AI

Actual Credits 3

Requirement Select
- AI3200 - Machine Learning

Actual Credits 3

Requirement Select
- BIOL1113 - General Biology I
  OR
- BIOL1123 - General Biology II
  OR
- BIOL2310 - General Botany
  OR
- CHEM1110 - General Chemistry I
  OR
- CHEM1120 - General Chemistry II
  OR
- GEOL1040 - Physical Geology
  OR
- GEOL1045 - Earth Environ Resrces Soc
  OR
- PHYS2010 - Algebra-based Physics I
  OR
- PHYS2020 - Algebra-based Physics II
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	Fall	14

Requirement Select
- CSC4610 - Software Engineering I

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Elective (2 cr.)
  (Generic)

Actual Credits 2

Requirement Select
- Elective (3 cr.) 2000-level or higher
  (Generic)

Actual Credits 3

Requirement Select
- AI4200 - Deep Learning

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	12

Requirement Select
- CSC4200 - Computer Networks

Actual Credits 3

Requirement Select

- Upper division electives (3 cr.) (Generic)

Actual Credits 3

Requirement Select

- CSC4260 - Adv Data Sci & Applications

Actual Credits 3

Requirement Select

- CSC4620 - Software Engineering II

Actual Credits 3

CSC-BS - Computer Science, B.S.

Program Overview

Program Long Title

Computer Science, B.S.

College/School

Engineering

Department(s)

Computer Science

Requirements

Simple Requirements

Computer Science, B.S. (120 hours)

Type
Completion Requirement

Computer Science, B.S. (120 hours)

Complete ALL of the following Courses:

- CSC1020 - Connections to Computing
- CSC1300 - Intro/Prob Solving-Comp Prog
- CSC1310 - Data Structures and Algorithms
- CSC2310 - Object-Oriented Prgrming/Dsgn
- CSC2510 - Intro to DevOps with Unix
- CSC2400 - Design of Algorithms
- CSC2700 - Discrete Structures for CSC
- CSC3300 - Database Mgmt Systems
- CSC3410 - Comp Org/Assemb Lang Prog
- CSC3710 - Foundations/Computer Science
- CSC3040 - Profsnlsm, Comm, Rsrch in Comp
- CSC4320 - Computer Architecture
- CSC4100 - Operating Systems
- CSC4610 - Software Engineering I
- CSC4200 - Computer Networks
- CSC4620 - Software Engineering II
- MATH1910 - Calculus I
- MATH2010 - Introduction to Linear Algebra
- MATH3070 - Statistical Methods I
  OR MATH3470 - Intro/Prob & Stats

Additional Requirements:

CSC Upper Division Electives (3000-4000 level) - 9 cr.

CSC Lower Div. (Gateway) Electives : choose two electives from CSC 2220, CSC 2570, and CSC 2770 **(CSC 2220 or CSC 2570 needed to complete Financial or Digital Literacy requirement).**

CSC electives (6 cr.) - any CSC course at the 2000-level or higher.

General Electives (5 cr.)

Written and Oral Communication Electives (9 cr.)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Oral Communication
- Communication (GEDC) - Writing

Humanities/Cultural Expression (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Social and Behavioral Science (6 cr.)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Scientific Reasoning (8 cr.)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Complete one sequence chosen from the following:

· BIOL 1113 and BIOL 1123 OR BIOL 1113 and BIOL 2310 OR

· CHEM 1110 and CHEM 1120 OR

· GEOL 1040 and GEOL 1045 OR

· PHYS 2010 and PHYS 2020 OR PHYS 2110 and PHYS 2120

Financial or Digital Literacy (3 cr.)

Complete ANY of the following Course Sets:

- Financial Literacy or Digital Literacy (FFDL)

CSC 2220 or CSC 2570 completes this requirement.

Quantitative Reasoning and Analysis (3 cr.)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Requirement complete with MATH 1910

Historical Foundations (6 cr.)

Earn at least 6 credits from the following:

- Historical Foundations (FFHF)

Degree Map

Degree Map Name
Degree Plan - Computer Science, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- CSC1020 - Connections to Computing

Actual Credits 1

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- Computer Science - Science Sequence

Actual Credits 4

Requirement Select
- CSC2310 - Object-Oriented Prgrming/Dsgn

Actual Credits 4

Requirement Select
- CSC2510 - Intro to DevOps with Unix

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Computer Science - Science Sequence

Actual Credits 4

Requirement Select
- CSC2400 - Design of Algorithms

Actual Credits 3

Requirement Select
- CSC2700 - Discrete Structures for CSC

Actual Credits 3

Requirement Select
- CSC2220 - Data Science & AI for Everyone
  OR
- CSC2570 - Intro to Cybersecurity/Privacy
  OR
- CSC2770 - Intro to Systems & Networking

Actual Credits 3

Requirement Select
- CSC2220 - Data Science & AI for Everyone
  OR
- CSC2570 - Intro to Cybersecurity/Privacy
  OR
- CSC2770 - Intro to Systems & Networking

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- CSC3300 - Database Mgmt Systems

Actual Credits 3

Requirement Select
- CSC3410 - Comp Org/Assemb Lang Prog

Actual Credits 3

Requirement Select
- CSC3710 - Foundations/Computer Science

Actual Credits 3

Requirement Select
- CSC elective (3 r.) - any CSC elective at the 2000-level or higher
  (Generic)

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- CSC3040 - Profsnlsm, Comm, Rsrch in Comp

Actual Credits 3

Requirement Select
- CSC4320 - Computer Architecture

Actual Credits 3

Requirement Select
- CSC Upper Division Elective
  (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- CSC elective (3 cr.) any 2000-level or above level CSC course
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	12

Requirement Select
- CSC4100 - Operating Systems

Actual Credits 3

Requirement Select
- CSC4610 - Software Engineering I

Actual Credits 3

Requirement Select
- CSC Upper Division Elective
  (Generic)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select
- CSC4200 - Computer Networks

Actual Credits 3

Requirement Select
- CSC4620 - Software Engineering II

Actual Credits 3

Requirement Select
- Electives (5 cr.)
  (Generic)

Actual Credits 5

Requirement Select
- CSC Upper Division Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- CSC 1020 not required for transfer students with more than 12 hours.
  (Generic)

Actual Credits -

Requirement Select
- Science sequence - take at least one science sequence from BIOL 1113- BIOL 1123, BIOL 1113-BIOL 2310, CHEM 1110-CHEM 1120, GEOL 1040-GEOL 1045, PHYS 2010-PHYS 2020 or PHYS 2110-PHYS 2120.
  (Generic)

Actual Credits -

Requirement Select
- CSC Lower-Division Electives - Take two of the three Concentration gateway courses (Cyber, HPC: CSC 2220, CSC 2570, CSC 2770).
  (Generic)

Actual Credits -

Requirement Select
- CSC Upper-division Elective - take any additional 3000- or 4000-level CSC course
  (Generic)

Actual Credits -

CSC-CSEC - Computer Science, Information Assurance and Cybersecurity, B.S.

Program Overview

Program Long Title
Computer Science, Information Assurance and Cybersecurity, B.S.

College/School
Engineering

Department(s)
Computer Science

Requirements

Simple Requirements

Computer Science, Information Assurance and Cybersecurity, B.S. (120 hours)

Type
Completion Requirement

Complete ALL of the following Courses:
- CSC1020 - Connections to Computing
- CSC1300 - Intro/Prob Solving-Comp Prog
- CSC1310 - Data Structures and Algorithms
- CSC2310 - Object-Oriented Prgrming/Dsgn
- CSC2400 - Design of Algorithms
- CSC2510 - Intro to DevOps with Unix
- CSC2700 - Discrete Structures for CSC
- CSC2570 - Intro to Cybersecurity/Privacy
- CSC2770 - Intro to Systems & Networking
- CSC3710 - Foundations/Computer Science
- CSC3300 - Database Mgmt Systems
- CSC3410 - Comp Org/Assemb Lang Prog
- CSC3570 - IT Security
- CSC3040 - Profsnlsm, Comm, Rsrch in Comp
- CSC4320 - Computer Architecture
- CSC4575 - Cryptography/Network Security
- CSC4200 - Computer Networks
- CSC4585 - Software and Systems Security
- CSC4610 - Software Engineering I
- CSC4100 - Operating Systems
- CSC4620 - Software Engineering II
- MATH1910 - Calculus I
- MATH2010 - Introduction to Linear Algebra
- MATH3070 - Statistical Methods I

Additional Requirements:

CSC Electives (9 cr.) - 2000-level or higher

General Elective (2 cr.)

Humanities/Cultural Expression (6 cr.)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Scientific Reasoning (8 cr.)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Take one science sequence from the following:

· BIOL 1113 and BIOL 1123 OR BIOL 1113 and BIOL 2310 OR

· CHEM 1110 and CHEM 1120 OR

- GEOL 1040 and GEOL 1045 OR
- PHYS 2010 and PHYS 2020 OR PHYS 2110 and PHYS 2120

Social and Behavioral Science Electives (6 cr.)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Financial or Digital Literacy (3 cr.)

Complete ANY of the following Course Sets:

- Financial Literacy or Digital Literacy (FFDL)

CSC 2570 completes this requirement

Written and Oral Communication Electives (9 cr.)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Oral Communication

Historical Foundations (6 cr.)

Earn at least 6 credits from the following:

- Historical Foundations (FFHF)

Quantitative Reasoning and Analysis (3 cr.)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Requirement complete with MATH 1910

Degree Map

Degree Map Name
Degree Plan - Computer Science, Information Assurance and Cybersecurity Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- CSC1020 - Connections to Computing

Actual Credits 1

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- CSC2310 - Object-Oriented Prgrming/Dsgn

Actual Credits 4

Requirement Select
- CSC2400 - Design of Algorithms

Actual Credits 3

Requirement Select
- CSC2510 - Intro to DevOps with Unix

Actual Credits 3

Requirement Select
- CSC2700 - Discrete Structures for CSC

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- CSC3710 - Foundations/Computer Science

Actual Credits 3

Requirement Select
- Computer Science - Science Sequence

Actual Credits 4

Requirement Select
- CSC2570 - Intro to Cybersecurity/Privacy

Actual Credits 3

Requirement Select
- CSC2770 - Intro to Systems & Networking

Actual Credits 3

Requirement Select
- CSC Elective (3 cr.) - any CSC course at the 2000-level or higher
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- CSC3300 - Database Mgmt Systems

Actual Credits 3

Requirement Select
- CSC3410 - Comp Org/Assemb Lang Prog

Actual Credits 3

Requirement Select
- CSC3570 - IT Security

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- CSC elective (3 cr.) - any CSC course at the 2000-level or higher
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- CSC3040 - Profsnlsm, Comm, Rsrch in Comp

Actual Credits 3

Requirement Select
- CSC4320 - Computer Architecture

Actual Credits 3

Requirement Select
- CSC4575 - Cryptography/Network Security

Actual Credits 3

Requirement Select
- Elective (2 cr.)
  (Generic)

Actual Credits 2

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- CSC4200 - Computer Networks

Actual Credits 3

Requirement Select
- CSC4585 - Software and Systems Security

Actual Credits 3

Requirement Select
- CSC4610 - Software Engineering I

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- CSC4100 - Operating Systems

Actual Credits 3

Requirement Select
- CSC4620 - Software Engineering II

Actual Credits 3

Requirement Select
- CSC Elective - (any 2000 or above level CSC course) - 3 cr.
  (Generic)

Actual Credits 3

Requirement Select
- Computer Science - Science Sequence

Actual Credits 4

Requirement Select
- Science sequence - take at least one science sequence from BIOL 1113- BIOL 1123, BIOL 1113-BIOL 2310, CHEM 1110-CHEM 1120, GEOL 1040-GEOL 1045, PHYS 2010-PHYS 2020 or PHYS 2110-PHYS 2120.
  (Generic)

Actual Credits -

Requirement Select
- CSC 1020 not required for transfer students with more than 12 hours.
  (Generic)

Actual Credits -

CSC-HPC - Computer Science, High Performance Computing Concentration, B.S.

Program Overview

Program Long Title
Computer Science, High Performance Computing Concentration, B.S.

College/School
Engineering

Department(s)
Computer Science

Requirements

Simple Requirements

Computer Science, High Performance Computing, B.S. (120 hours)

Type
Completion Requirement

CSC/High Performance Computing Concentration

Complete ALL of the following Courses:
- CSC1020 - Connections to Computing
- CSC1300 - Intro/Prob Solving-Comp Prog
- CSC1310 - Data Structures and Algorithms
- CSC2310 - Object-Oriented Prgrming/Dsgn
- CSC2510 - Intro to DevOps with Unix
- CSC2400 - Design of Algorithms
- CSC2700 - Discrete Structures for CSC
- CSC2770 - Intro to Systems & Networking
- CSC3300 - Database Mgmt Systems
- CSC3410 - Comp Org/Assemb Lang Prog
- CSC3040 - Profsnlsm, Comm, Rsrch in Comp
- CSC3710 - Foundations/Computer Science
- CSC4200 - Computer Networks
- CSC4760 - Parallel Programming
- CSC4100 - Operating Systems
- CSC4320 - Computer Architecture
- CSC4610 - Software Engineering I
- CSC4770 - Distributed & Cloud Computing
- CSC4620 - Software Engineering II
- CSC4780 - Adv Networking & Security
- CSC4040 - Undergrad Computing Rsrch Exp
  OR CSC4220 - Data Mining/Machine Learning
  OR CSC4400 - Analysis of Algorithms
  OR CSC4575 - Cryptography/Network Security
  OR CSC4710 - Dsgn/Dev-Human/Web Interface
- MATH1910 - Calculus I
- MATH2010 - Introduction to Linear Algebra
- MATH3070 - Statistical Methods I
  OR MATH3470 - Intro/Prob & Stats

Additional Requirements:

CSC HPC Elective (3 cr.) - CSC 4040, 4220, 4400, 4575, or 4710.

CSC Electives (2000-level or higher) - 6 cr.

General Elective (2 cr.)

Humanities/Cultural Expression (6 cr.)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Social and Behavioral Science (6 cr.)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Financial or Digital Literacy (3 cr.)

Complete ANY of the following Course Sets:

- Financial Literacy or Digital Literacy (FFDL)

Scientific Reasoning (8 cr.)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

One science sequence (8 cr.) chosen from the following:

(BIOL 1113 and BIOL 1123) or (BIOL 1113 and BIOL 2310) or

CHEM 1110 and CHEM 1120 or

GEOL 1040 and GEOL 1045 or

(PHYS 2010 and PHYS 2020) or (PHYS 2110 and PHYS 2120)

Written and Oral Communication Electives (9 cr.)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Oral Communication
- Communication (GEDC) - Writing

Quantitative Reasoning and Analysis (3 cr.)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Requirement complete with MATH 1910

Historical Foundations (6 cr.)

Earn at least 6 credits from the following:

- Historical Foundations (FFHF)

Degree Map

Degree Map Name
Degree Plan - Computer Science, High Performance Computing Concentration, B.S.
Total Degree Map Credits
117
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- CSC1020 - Connections to Computing

Actual Credits 1

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CSC2310 - Object-Oriented Prgrming/Dsgn

Actual Credits 4

Requirement Select
- CSC2510 - Intro to DevOps with Unix

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Computer Science - Science Sequence

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- CSC2400 - Design of Algorithms

Actual Credits 3

Requirement Select
- CSC2700 - Discrete Structures for CSC

Actual Credits 3

Requirement Select
- CSC2770 - Intro to Systems & Networking

Actual Credits 3

Requirement Select
- Computer Science - Science Sequence

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- CSC3300 - Database Mgmt Systems

Actual Credits 3

Requirement Select
- CSC3410 - Comp Org/Assemb Lang Prog

Actual Credits 3

Requirement Select
- CSC Elective - Any additional 2000 or above level CSC course
  (Generic)

Actual Credits 3

Requirement Select
- CSC elective (3 cr.) - any CSC course at the 2000-level or higher.
  (Generic)

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- CSC3040 - Profsnlsm, Comm, Rsrch in Comp

Actual Credits 3

Requirement Select
- CSC3710 - Foundations/Computer Science

Actual Credits 3

Requirement Select
- CSC4200 - Computer Networks

Actual Credits 3

Requirement Select
- CSC4760 - Parallel Programming

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- CSC4100 - Operating Systems

Actual Credits 3

Requirement Select
- CSC4320 - Computer Architecture

Actual Credits 3

Requirement Select
- CSC4610 - Software Engineering I

Actual Credits 3

Requirement Select
- CSC4770 - Distributed & Cloud Computing

Actual Credits 3

Requirement Select
- Elective (2 cr.)
  (Generic)

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	Second Semester	9

Requirement Select

- CSC4780 - Adv Networking & Security

Actual Credits 3

Requirement Select

- CSC4620 - Software Engineering II

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- CSC 1020 not required for transfer students with more than 12 hours and not included in the 120-hour degree requirement.
  (Generic)

Actual Credits -

Requirement Select

- The sequence must be one of the following: BIOL 1113-BIOL 1123, BIOL 1113-BIOL 2310, CHEM 1110-CHEM 1120, GEOL 1040-GEOL 1045, PHYS 2010-PHYS 2020 or PHYS 2110-PHYS 2120.
  (Generic)

Actual Credits -

Requirement Select

- CSC HPC Elective (CSC 4040, CSC 4220, CSC 4400 (5400) , CSC 4575 (5575) , CSC 4710)
  (Generic)

Actual Credits -

CSC-MIN - Computer Science Minor

Program Overview

Program Long Title
Computer Science Minor

College/School
Engineering

Department(s)
Computer Science

Requirements

Simple Requirements

Computer Science Minor

Type
Completion Requirement

Computer Science (CSC) Minor

Students (except Computer Engineering majors) must complete fifteen (15) semester hours of CSC courses including CSC 1310 and at least six (6) upper division CSC hours.

Computer Engineering majors may earn a Computer Science minor by completing the following courses in addition to the computer sciences coursework in the Computer Engineering major: CSC 3570 - IT Security (3 hours), CSC 4575 (5575) - Cryptography and Network Security (3 hours).

Courses

AI 3000: Introduction to Artificial Intelligence and Machine Learning

Course Information

Course Title
Intro. to AI and ML

Academic Level (Course Level)
Undergraduate

Course Subject Code
AI

Course Number
3000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course provides an overview of the core ideas and techniques that enable computers to learn from data and make intelligent decisions. Students explore fundamental AI concepts, including search, reasoning, and problem solving, along with key machine learning approaches such as supervised and unsupervised learning, model evaluation, and basic neural networks. Through hands-on programming assignments and real-world examples, students gain practical experience building simple AI systems and understanding their societal and ethical implications.

College/School
Engineering

Syllabus
AI3000_Syllabus.docx

Course Information

Course Title
Human-Centered AI

Academic Level (Course Level)
Undergraduate

Course Subject Code
AI

Course Number
3100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Explores the intersection of artificial intelligence and human-computer interaction (HCI), emphasizing the design and evaluation of AI systems that effectively serve and collaborate with people. Students will examine how humans interact with AI systems and learn to build AI that is usable, trustworthy, fair, and aligned with human values. The course will use projects, readings, and discussions to help students develop skills for designing AI systems that are not only technically robust but also ethically and socially responsible.

College/School
Engineering

Syllabus
AI 3100 Course Syllabus.docx

Requisites and Restrictions

Prerequisite:
CSC 4240

Machine Learning

Course Information

Course Title
Machine Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
AI

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course covers the fundamentals of machine learning with a primary focus on understanding and developing the underlying code and mathematics background (calculus, linear algebra, and modeling) to implement optimization on models fundamental to and including multi-layered neural nets. Students explore optimization as learning, a range of model types, and how to evaluate them in different applications. Basic concepts like unsupervised and supervised learning, model bias vs variance, regularization, and loss calculation are discussed and applied.

College/School
Engineering

Syllabus
AI3200_Syllabus.docx

Course Information

Course Title
Deep Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
AI

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
An advanced and practical exploration of deep learning, covering mathematical foundations and applied skills to design, implement, train, evaluate, and deploy a variety of deep neural networks - including ANNs, LSTMs, GRUs, residual CNNs, Transformers, and others. Course work will prioritize hands-on coding - utilizing high performance computing resources with an emphasis on applying deep learning to real-world datasets.

College/School
Engineering

Syllabus
AI 4200 Course Syllabus - revised - v2.docx

Requisites and Restrictions

Prerequisite:
CSC 4220.

Course Information

Course Title
Connections to Computing

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
1020

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Engages the student in meaningful academic and non-academic, out-of-the classroom activities involving computer. Emphasizes critical thinking in the formation of academic and social goals and support groups and in self-management and study skills. Introduces communication and teamwork skills.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Freshman Standing.

Course Information

Course Title
Principles of Computing

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
1200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACT Math Score of 25 or higher or MATH 1710, MATH 1720, MATH 1730, or MATH 1910. This course introduces the field of computer science. Topics include computing as a creative activity, abstraction, data and information, algorithms, programming, the Internet, and global impacts of computing. Prerequisite math course may be taken concurrently.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ACT Math score of 25 or higher, MATH 1710, MATH 1720, MATH 1730, or MATH 1910.

Course Information

Course Title
Intro/Prob Solving-Comp Prog

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
1300

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: CSC 1200 or MATH 1845 or MATH 1910. MATH 1845 or MATH 1910 may be taken concurrently. Digital computers; problem solving and algorithm development; programming is introduced using a procedural approach, but classes and object-orientation are introduced; design and testing are emphasized. Students complete a series of weekly laboratory exercises for developing proficiency in problem solving and computer programming.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 1200 or MATH 1845 or MATH 1910. MATH 1845 or MATH 1910 may be taken concurrently.

Course Information

Course Title
Data Structures and Algorithms

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
1310

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: C or better in CSC 1300 and MATH 1910. Abstract data types and fundamental data structures including stacks, queues, and trees; algorithms to search, sort, and manipulate data using such structures; and introduction to runtime analysis. Students complete a series of weekly laboratory exercises for developing proficiency in implementing and utilizing data structures. MATH 1910 may be taken concurrently.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 1300 and MATH 1910.

Note:
(CISP 1020, TTP Course)

Course Information

Course Title
Algorithmic Thinking I

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
1380

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
3

Lab Hours

Min:
1

Repeatable for Credit:
No

Course Description
Problem-solving and algorithm development; programming is introduced using a procedural approach; algorithmic design and testing are emphasized. Focus on foundational programming skills. Students complete a series of weekly laboratory exercises to develop proficiency in problem-solving and computer programming.

College/School
Engineering

Syllabus
CSC 1380 Course Syllabus.docx

Requisites and Restrictions

Prerequisite:
Prerequisites: MATH 1830, MATH 1845, MATH 1904, or MATH 1910. May be taken concurrently.

Course Information

Course Title
Algorithmic Thinking II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
1390

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Abstract data types and fundamental data structures including stacks, queues, and trees; algorithms to search, sort, and manipulate data using such structures; and introduction to runtime analysis; responsible use of Generative AI methods for programming.

College/School
Engineering

Syllabus
CSC 1390 Course Syllabus.docx

Requisites and Restrictions

Prerequisite:
Prerequisites: C or better in CSC 1380 or CSC 1300; MATH 1830, MATH 1845, MATH 1845, MATH 1904, or MATH 1910.

Note: Complete one course chosen from CSC 1300 or CSC 1380.

Course Information

Course Title
Intro-Object-Oriented Prog

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Grade of C or better in CSC 2001 or ENGR 1210. Corequisite: CSC 2011, MATH 1730, or equivalent. Digital computers, problem solving and algorithm development, programming in an object-oriented language, and methods and style are emphasized.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 2001 or ENGR 1210.

Corequisite:
CSC 2011, MATH 1730, or equivalent.

Course Information

Course Title
Intro-Object-Oriented Prog Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2011

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisite: Grade of C or better in CSC 2001 or ENGR 1210. Corequisites: CSC 2010, MATH 1730, or equivalent. A series of weekly laboratory exercises for developing proficiency in object-oriented programming and problem solving.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 2001 or ENGR 1210.

Corequisite:
CSC 2010, MATH 1730, or equivalent.

Course Information

Course Title
Data Structures/Algorithms Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2111

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
Prerequisite: C or better in CSC 2100, CSC 2101, and MATH 1910. Corequisite: CSC 2110. A series of weekly laboratory exercises for developing proficiency in implementing and utilizing data structures.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 2100, CSC 2101 and MATH 1910.

Corequisite:
CSC 2110.

Course Information

Course Title
Data Science & AI for Everyone

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: None. Introduction to how data science and artificial intelligence are used in industry and academia. Students will be introduced to what data science is all about: how statistics, machine learning, and software engineering play a role in data science; and be introduced to some of the terms and tools used by data scientists. Students will learn about the structure of a data science project, what makes for successful and unsuccessful projects, and take part in a data science project. Students will also be introduced to artificial intelligence and its application to real-world problems.

College/School
Engineering

Course Information

Course Title
Object-Oriented Prgrming/Dsgn

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2310

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: C or better in CSC 1310. Theory and practice of object-oriented programming and design. Encapsulation, inheritance, dynamic binding, and polymorphism; and introduction to UML and design patterns. Students complete a series of weekly laboratory exercises for developing proficiency in object-oriented programming and design.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 1310.

Course Information

Course Title
Design of Algorithms

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: C or better in MATH 1910 or (MATH 1904 and 1906); and C or better in CSC 1310. Advanced data structures and applications, problem solving strategies, heuristics, and complexity of algorithms. MATH 1920 may be taken concurrently.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Prerequisites: C or better in MATH 1910 or (MATH 1904 and 1906); and C or better CSC 1310.

Course Information

Course Title
Intro to DevOps with Unix

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in CSC 1310. An introduction to DevOps with Unix including terminology, processes, and techniques with an emphasis on development procedures for systems programming and management, and automated provisioning.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 1310.

Course Information

Course Title
Intro to Cybersecurity/Privacy

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2570

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
The purpose of this course is to cover basic concepts, including fundamental principles, common attacks, and defense mechanisms in the areas of security, privacy, and networking. Students will be introduced to primitive concepts and building blocks of computer networks with cyber defense elements. This is an introductory level course for students interested in basic networking and cybersecurity.

College/School
Engineering

Course Information

Course Title
Discrete Structures for CSC

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2700

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 1910. Applications of discrete mathematics to computer science, sets and boolean algebra, relations, and graphs, with applications to computer logic and data structures.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 1910.

Course Information

Course Title
Intro to Systems & Networking

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2770

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CSC 1310. This course provides students an overview and introduction to architectures, operating systems, and networks. In addition, it will introduce computer architecture including number systems, memory organization and hierarchy, as well as CPU architectures, and distributed architectures. Students are introduced to processes and threads operating systems components and functions, and concurrency and parallelism. Students will also learn networking fundamentals, the network core and edge, data transition medium, delay, loss, protocols (TCP/IP and OSI), how the Internet works, and common application layer protocols = SMTP, HTTP, FTP, DNS, VLAN. Students will be introduced to network addressing schemes, including IP addressing and MAC addressing.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 1310.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2901

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Timely topics in computer science. Individual courses may not be repeated either for credit or for improvement of credit.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2902

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Timely topics in computer science. Individual courses may not be repeated either for credit or for improvement of credit.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
2903

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Timely topics in computer science. Individual courses may not be repeated either for credit or for improvement of credit.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Numerical Methods

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: MATH 1920 and C or better in CSC 1310. Linear and non-linear equations; convergence and error analysis; quadrature; interpolation; numerical differentiation and integration; first order differential equations; boundary value problems; and approximation of functions.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 1920 and C or better in CSC 1310.

Course Information

Course Title
Profsnlsm, Comm, Rsrch in Comp

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
3040

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing, COMM 2025 or PC 2500, and C or better in CSC 1310. Social, ethical, and career aspects of computing. Written, oral, and audio-visual communication in computer science, presentation techniques, report preparation, and technical correspondence. Introduction to research in computing.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Junior Standing, COMM 2025 or PC 2500, and C or better in CSC 1310.

Course Information

Course Title
Web Programming

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
3100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in CSC 1310. Development of web applications with client and server-side technologies.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 1310.

Course Information

Course Title
Fundamentals of Data Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
3220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: MATH 3070 or MATH 3470 or MATH 4470 (5470), CSC 2220, and C or better in CSC 1310. MATH 3070 or MATH 3470 or MATH 4470 (5470) may be taken concurrently. Introduction to the tools and techniques for developing data science applications and to the basics of Data Science including programming for data management, data manipulation, data analytics, and data visualization. Students will be introduced to various machine learning algorithms, and learn to formulate context-relevant questions and hypothesis to drive scientific research and understand statistical inference.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 3070 or MATH 3470 or MATH 4470 (5470), CSC 2220, and C or better in CSC 1310. MATH 3070 or MATH 3470 or MATH 4470 (5470) may be taken concurrently.

Course Information

Course Title
Healthcare Data Analytics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
3230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: MATH 3070 or MATH 3470 and 'C' or better in CSC 2400. Co-requisites: None. Introduction to healthcare data analytics. High level topics include healthcare data and data courses (including both electronic health records and genomic data), techniques for healthcare data analytics, applications of healthcare analytics, integration of analytics applications into clinical workflow, evaluation of analytics applications, and legal and ethical issues in healthcare data analytics.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 3070 or MATH 3470, and C or better in CSC 2400.

Course Information

Course Title
Database Mgmt Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
3300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: C or better in CSC 1310; and either CSC 2700 or ECE 2140 or MATH 2610 or MATH 3400. Organization and management of large data files; data definition; database models; query languages; crash recovery; concurrency control; and case studies.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 1310, and either CSC 2700 or ECE 2140 or MATH 2610 or MATH 3400

Course Information

Course Title
Deterministic Computer Models

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
3340

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in CSC 1310 and MATH 2010. Formulation and application of the models of linear, non-linear, integer, and dynamic programming including computer solutions of the algorithms.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 1310; and MATH 2010.

Course Information

Course Title
Comp Org/Assemb Lang Prog

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
3410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in CSC 1310. Computer organization and architecture; machine language; and assembly language programming techniques

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 1310.

Course Information

Course Title
IT Security

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
3570

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in CSC 2510, and CSC 2570, and CSC 2770 or 4200(5200). An overview of various technical and administrative aspects of Information Security. Introduces students to assets in typical IT infrastructure, potential threats to assets, common associated vulnerabilities, protection of assets, and response to security incidents.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 2510, and CSC 2570, and CSC 2770 or CSC 4200 (5200).

Course Information

Course Title
Foundations/Computer Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
3710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in CSC 2700; and C or better in CSC 1310. Application of discrete structures to model computational processes; techniques for analysis of algorithms; and automata and concepts of language theory. CSC 1310 or both of CSC 2110 and 2111 may be taken concurrently.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 2700; and C or better in CSC 1310.

Course Information

Course Title
Programming Languages

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in CSC 3710 and CSC 3410. Concepts distinguishing modern programming languages with emphasis on language design, implementation, and run-time behavior.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 3410 and CSC 3710.

Course Information

Course Title
Undergrad Computing Rsrch Exp

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4040

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: CSC 3040 and consent of instructor. This course combines instruction on how to perform computing research with a faculty-mentored research project.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 3040 and consent of instructor.

Course Information

Course Title
Operating Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in CSC 1310; and CSC 3410 or ECE 3130. A historical perspective of operating systems; overview of modern systems; processor, storage, and process management; virtual memory; deadlocks; concurrent processing and programming; protection; and case studies.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 1310; and CSC 3410 or ECE 3130.

Course Information

Course Title
Computer Networks

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CSC 2400. Data communications and computer networks; network models and protocols; local area networks; and data security

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 2400.

Course Information

Course Title
Data Mining/Machine Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: MATH 2010 and (MATH 3070 or MATH 3470 or MATH 4470/5470) and CSC 2310 and (CSC 2700 or MATH 2610 or MATH3400). Introduction to a solid grounding in machine learning concepts as well as practical advice on applying machine learning tools and techniques in real-world data mining situations, including preparing inputs, interpreting outputs, evaluating results, and the algorithmic methods at the heart of successful data mining. Students will also be introduced to latest advances in the field, including data transformations, ensemble learning, massive data sets, multi-instances learning, with an application towards the leading edge of contemporary research.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Prerequisites: MATH 2010 and (MATH 3070 or MATH 3470 or MATH 4470 or MATH 5470) and CSC 2310 and (CSC 2700 or MATH 2610 or MATH 3400).

Course Information

Course Title
Artificial Intelligence

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4240

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in CSC 2400. A unified survey of AI methods and applications; search and problem solving; knowledge representation; methods of reasoning, planning and uncertainty; learning, perception and communication; and rational agents.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 2400.

Course Information

Course Title
Adv Data Sci & Applications

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4260

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: CSC 3300; MATH 2010; and a C or better in CSC 3220. Project-oriented course that exposes the students to advanced data science topics and the real-world applications of data science. Students will learn MapReduce/Hadoop, advanced visualization techniques, and a variety of data acquisition tools. Students will also explore issues surrounding data management and data privacy. In addition, students will complete a da6ta science capstone project connected by a theme selected by the instructor, immersing students in the data science exploration of topics in areas such as healthcare, sports, cybersecurity. The course requires students to put into practice advanced data science techniques that address the full data science life-cycle.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 3220, CSC 3300, and MATH 2010.

Course Information

Course Title
Computer Architecture

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: CSC 3410 or equivalent. Computer systems, the CPU, the control unit, microprogramming, parallel organization, and RISC architectures.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 3410 or equivalent.

Course Information

Course Title
Analysis of Algorithms

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CSC 2400. Analysis techniques; search, traversal, string and graph algorithms; and NP-hard and NP-complete problems.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 2400.

Course Information

Course Title
IT Security

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4570

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in CSC 2500, and in either CSC 2570 or CSC 4200. This course covers the fundamentals of computer security needed for IT professionals. It is an overview of various technical and administrative aspects of Information Security. It introduces students to assets in typical IT infrastructure, potential threats to assets, common associated vulnerabilities, protection of assets, and response to security incidents.

College/School
Engineering

Course Information

Course Title
Cryptography/Network Security

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4575

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing and C or better in CSC 1310. Course introduces students to the fundamentals cryptographic techniques along with their application to the prevention, detection, and mitigation of cyber threats for network security.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Junior Standing and C or better in CSC 1310.

Course Information

Course Title
Software Reverse Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4580

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: CSC 2400. Basic concepts of reverse engineering and general techniques used for reverse engineering. Reverse engineering applied to basic static and dynamic analysis of malware executables. Study of malware behavior, techniques that malware uses to thwart detection and analysis, and hands-on exercises using malware analysis tools and best practices.u2028

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 2400.

Course Information

Course Title
Software and Systems Security

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4585

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in CSC 2400. CSC 4610 (can be taken concurrently). Introduction to the characteristics and practices of secure programming, approaches used in the development and deployment of secure web applications, and security assessment of software systems.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 2400. CSC 4610 (can be taken concurrently).

Course Information

Course Title
Software Engineering I

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4610

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisites: CSC 2310, CSC 2400, CSC 2510, CSC 3040, and CSC 3300, and senior standing. Course covers process models, agile methods, requirement analysis, design, testing, usability, configuration management and project management.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 2310, CSC 2400, CSC 2510, CSC 3040, and CSC 3300, and Senior Standing.

Course Information

Course Title
Software Engineering II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4615

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: C or better in CSC 4610. Course covers advanced agile methods, advanced testing concepts, deployment and maintenance. Includes significant senior collaborative design experience.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 4610.

Course Information

Course Title
Software Engineering II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4620

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: C or better in CSC 4610. Course covers advanced agile methods, coding, advanced testing concepts, deployment and maintenance.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 4610.

Course Information

Course Title
Dsgn/Dev-Human/Web Interface

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in CSC 1310; and C or better in CSC 3040. A course in human-computer interaction design and user interface development. It will expose students to tools, techniques, and ideas for designing effective human computer interfaces and discuss practical and legal aspects of accessibility.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 1310; and C or better in CSC 3040.

Course Information

Course Title
Computer Graphics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4750

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 2010 and C or better in CSC 2400. Interactive graphical techniques including three-dimensional transformations, hidden surface removal, texture mapping, and shading

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 2010 and C or better in CSC 2400.

Course Information

Course Title
Parallel Programming

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4760

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CSC 2400 and C or better in CSC 2510. Foundations of parallel computing including the parallel computer architectures, principles of parallel algorithm design, OpenMP and MPI programming models for shared- and distributed-memory systems, along with numerical and non-numerical algorithms for parallel systems.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 2400 and C or better in CSC 2510.

Course Information

Course Title
Distributed & Cloud Computing

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4770

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: CSC 2400. This course will cover the concepts in distributed systems including distributed computing, networking, operating systems, cloud, and programming languages. Furthermore, it will examine current applied topics in distributed systems.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 2400.

Course Information

Course Title
Adv Networking & Security

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4780

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CSC 4200 (5200). This course teaches in-depth topics in computer networking and network security. The course covers advanced topics in networking such as Quality of Service, WiFi and 5G, Next generation networking, and Networking security at different layers.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CSC 4200 (5200).

Course Information

Course Title
Directed Readings in CSC

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4801

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. This course provides for individual study under the direction of a faculty member in developing areas of computer science.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Directed Studies in CSC

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4802

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. This course provides for individual study under the direction of a faculty member in developing areas of computer science.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Directed Studies in CSC

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4803

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. This course provides for individual study under the direction of a faculty member in developing areas of computer science.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4901

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Timely topics in computer science. May be taken multiple times, provided the topic is different.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4902

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Timely topics in computer science. May be repeated for credit if the topic is different.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4903

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Timely topics in computer science. May be repeated for credit if the topic is different.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Computer Science Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSC

Course Number
4990

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Department approval, CSC 3040 and CSC 3300. Part-time employment in a professional or institutional situation related to the student's area of concentration in computer science.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Department approval, CSC 3040 and CSC 3300.

Cooperative Education Department

Sonja Higgenbotham, Assistant Director

The Cooperative Education Program is a form of experiential learning that integrates knowledge and theory learned in the classroom with practical application and skills development in a professional setting. The program is coordinated by the Center for Career Development, located on the third floor of the Roaden University Center (RUC 328). Students enrolled have the opportunity to gain valuable applied experience and make connections in the professional field they are considering as a career path. The cooperative education program provides careful supervision with timely evaluation of performance, attitude, and ability of the student on the job. The goal is to empower students to grow and improve their capabilities.

There are four co-op plans:

Plan A – Traditional up to 12 months

Plan B – Alternating 3 semesters of work and school

Plan C – Parallel working locally while attending Tennessee Tech

Plan D – Summer only assignment

Students electing to enter the Cooperative Education Program at Tennessee Tech must meet the following requirements:

- Have a cumulative overall 2.0 GPA at the time of Employer Co-op Offer and through the beginning of the co-op assignment with the employer.
- Must have completed two grading cycles at the university.
- Must attend a Co-op Meetup Information Session.
- Must complete the Gold (freshman/sophomore) or Purple (junior/senior) Career Readiness Certification Program.
- Complete a Co-op Orientation appointment through Career Development the semester before position begins.
- Maintain enrollment in the appropriate co-op course throughout the entire co-op assignment, **including summer semesters.**

Additional Requirements for Engineering Undergraduate Students:

- Must complete a major specific milestone course with a C or better grade.

Major	Milestone Course
Chemical Engineering	CHE 2015
Civil Engineering	CEE 2110
Computer Engineering	New Curriculum: ECE 2050 or ECE 2140 Old Curriculum: ECE 2010 or ECE 2110
Computer Science	CSC 1310
Electrical Engineering	New Curriculum: ECE 2050 or ECE 2140 Old Curriculum: ECE 2010 or ECE 2110
Engineering Technology	MET 2000 or MET 2065
Mechanical Engineering	ME 2330

Co-op work assignments are available in industry and business, agricultural areas, educational systems, and governmental agencies. Students applying for Co-op are not guaranteed work assignments nor stipulated specific job benefits or salaries. Employers determine the salaries and pay students directly. In regard to permanent employment after graduation, participation in the Co-op Program involves no obligation on the part of the university, student, or employer. Co-op experience is a benefit to students in securing full-time employment following graduation. Many students do return to their co-op employers after graduation.

Co-op students are required to complete the same academic program for graduation as non-co-op students. Students will be registered each semester on assignment for their course by the Cooperative Education Office and will be required to pay tuition for a one hour Co-op course each semester of their work assignment, including summer semesters. Co-op students are classified as enrolled by the university while on assignment.

Students on assignment must submit a work report by an established date and will receive a grade of **Satisfactory or Unsatisfactory** (S or U). Students must maintain a 2.0 GPA.

Additional information about the Cooperative Education Program may be obtained by contacting the Center for Career Development.

Courses

Course Information

Course Title
Cooperative Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
COOP

Course Number
2010

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Approval by Office of Career Services and selection by employer. Each course represents one semester of off-campus work experience, practical learning, and training in the student's major field of study.

College/School
Independent Programs

Course Information

Course Title
Cooperative Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
COOP

Course Number
2030

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Approval by Office of Career Services and selection by employer. Each course represents one semester of off-campus work experience, practical learning, and training in the student's major field of study.

College/School
Independent Programs

Course Information

Course Title
Cooperative Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
COOP

Course Number
2020

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Approval by Office of Career Services and selection by employer. Each course represents one semester of off-campus work experience, practical learning, and training in the student's major field of study.

College/School
Independent Programs

Course Information

Course Title
Cooperative Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
COOP

Course Number
4010

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Completion of three semesters of successful work experience, approval by Office of Career Services, and selection by employer. The 4000-series allows students to demonstrate more initiative and creativity and to accept more responsibility.

College/School
Independent Programs

Course Information

Course Title
Cooperative Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
COOP

Course Number
4020

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Completion of three semesters of successful work experience, approval by Office of Career Services, and selection by employer. The 4000-series allows students to demonstrate more initiative and creativity and to accept more responsibility.

College/School
Independent Programs

Course Information

Course Title
Cooperative Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
COOP

Course Number
4030

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Completion of three semesters of successful work experience, approval by Office of Career Services, and selection by employer. The 4000-series allows students to demonstrate more initiative and creativity and to accept more responsibility.

College/School
Independent Programs

Requisites and Restrictions

Prerequisite:
Completion of three semesters of successful work experience, approval by the Center for Career Development, and selection by employer.

Course Information

Course Title
Cooperative Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
COOP

Course Number
4040

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Credit 1.
Prerequisite: Completion of three semesters of successful work experience, approval by the Center for Career Development, and selection by employer. (when approved). The 4000-series allows students to demonstrate more initiative and creativity and to accept more responsibility.

College/School
Independent Programs

Requisites and Restrictions

Prerequisite:
Completion of three semesters of successful work experience, approval by the Center for Career Development, and selection by employer.

Counseling and Psychology Department

Professor Stephanie Kazanas, Chairperson

The Department of Counseling and Psychology offers the program leading to the degree of Bachelor of Science in Psychology, psychological foundations courses for teacher education, and graduate programs leading to the Master of Arts and Specialist in Education degree in Counseling and Psychology.

Programs

HBDA-CER - Human Behavior Data Analytics Certificate

Program Overview

Program Long Title
Human Behavior Data Analytics Certificate

College/School
Education and Human Sciences

Department(s)
Counseling and Psychology

Requirements

Simple Requirements

Human Behavior Data Analytics Certificate

Type
Completion Requirement

Human Behavior Data Analytics (HBDA) Certificate

Complete ALL of the following Courses:

- PSY3010 - Stats & Experimental Design
- PSY3110 - Experimental Psychology (Inactive)
- PSY4600 - Data Analytics in Psy
- PSY4930 - Senior Thesis
- PSY4931 - Senior Thesis

PSY-BS - Psychology, B.S.

Program Overview

Program Long Title
Psychology, B.S.

College/School
Education and Human Sciences

Department(s)
Counseling and Psychology

Requirements

Simple Requirements

Psychology, B.S. (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Psychology majors complete the General Education Math requirement by taking MATH 1530, 1630, 1710, 1720, 1730, 1830, or 1910.

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (3 hours)

Earn at least 3 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

PSY 1030 complete 3 of 6 required credits.

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Psychology, B.S. Core

Complete ALL of the following Courses:
- PSY1030 - Introduction to Psychology
- PSY2130 - Life Span Devlopmnt Psychology
  OR PSY3300 - Intro to Social Psychology
- PSY3010 - Stats & Experimental Design
- PSY4150 - Psychology of Personality
  OR PSY4160 - Abnormal Psychology
- PSY3111 - Research Methods
- PSY4050 - Learning and Cognition
- PSY4990 - Senior Applied Experience
  OR PSY4995 - Senior Lab Experience
- PSY4130 - Brain and Behavior
  OR PSY4400 - Psychopharmacology
  OR PSY4120 - Sensation and Perception

Psychology, B.S. Core

Psychology Upper Division Core (18 credits):

Complete 18 credits of PSY 3000-4000 level electives.

Additional Program Requirements

Complete ALL of the following Courses:
- BIOL1010 - Introduction to Biology
  OR BIOL1113 - General Biology I
  OR BIOL2010 - Human Anatomy & Physiology I
- BIOL1020 - Diversity of Life
  OR BIOL1123 - General Biology II
  OR BIOL2020 - Human Anatomy & Physiology II
- MATH1530 - Introductory Statistics
  OR MATH1630 - Finite Mathematics
  OR MATH1710 - Pre-Calculus Algebra
  OR MATH1720 - Pre-calculus Trigonometry
  OR MATH1730 - Pre-Calculus Math
  OR MATH1830 - Applied Calculus
  OR MATH1910 - Calculus I

General Electives

Electives (40 credits)
Additional free electives are required to complete 120 earned hours.

Flight Foundation Core - Humanities and Cultural Expression - Literature (3 cr)

Earn at least 3 credits from the following:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Degree Map

Degree Map Name
Degree Plan - Psychology, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- BIOL1010 - Introduction to Biology
  OR
- BIOL1113 - General Biology I
  OR
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH1630 - Finite Mathematics
  OR
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1720 - Pre-calculus Trigonometry
  OR
- MATH1730 - Pre-Calculus Math
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1910 - Calculus I

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- BIOL1020 - Diversity of Life
  OR
- BIOL1123 - General Biology II
  OR
- BIOL2020 - Human Anatomy & Physiology II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- PSY2130 - Life Span Devlopmnt Psychology
  OR
- PSY3300 - Intro to Social Psychology

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Electives (9 cr.)
  (Generic)

Actual Credits 9

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Electives (9 cr.)
  (Generic)

Actual Credits 9

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- PSY3010 - Stats & Experimental Design

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- PSY4150 - Psychology of Personality
  OR
- PSY4160 - Abnormal Psychology

Actual Credits 3

Requirement Select
- PSY Upper Division Elective (3cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- PSY4050 - Learning and Cognition

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- PSY 3111- Research Methods
  (Generic)

Actual Credits 3

Requirement Select
- PSY Upper Division Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- PSY 4990- Senior Applied Experience
  (Generic)
  OR
- PSY 4995- Senior Lab Experience
  (Generic)

Actual Credits 3

Requirement Select
- PSY Upper Division Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- PSY4130 - Brain and Behavior
  OR
- PSY4400 - Psychopharmacology
  OR
- PSY4120 - Sensation and Perception

Actual Credits 3

Requirement Select
- PSY Upper Division Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- Electives (4cr.)
  (Generic)

Actual Credits 4

PSY-MIN - Psychology Minor

Program Overview

Program Long Title
Psychology Minor

College/School
Education and Human Sciences

Department(s)
Counseling and Psychology

Requirements

Simple Requirements

Minor in Psychology (PSY)

A minor for Psychology requires the completion of 15 semester hours of PSY courses, including 6 upper division hours of PSY courses.

Courses

Course Information

Course Title
Introduction to Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
1030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to methods and findings of contemporary psychology. Emphasis on psychological basis for understanding human behavior. Consideration of maturation, learning, thinking, motivation, emotion, sensation, perception, and personality.

College/School
Education and Human Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Social/Behavioral Sciences).

Note:
Note:

(PSYC 1030, TTP Course)

Course Information

Course Title
Information Literacy

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course introduces students to the critical skills needed to navigate, evaluate, and use information effectively in an increasingly digital world. Emphasis is placed on developing a healthy skepticism toward media sources, recognizing the influence of algorithms, and understanding how personal decisions shape perception.

College/School
Education and Human Sciences

Syllabus
CP02b_SYL_PSY_2020_Nov4_2025_Efff26.docx

Course Information

Course Title
Psychology of Adjustment

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
2110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Behavior and adjustment in modern society, maturing self-concept, adjustment to psychological stress, and prevention of maladjustment.

College/School
Education and Human Sciences

Course Information

Course Title
Educational Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
2210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Human growth and learning, nature of the learning process, factors that affect the learner, and application of psychological principles to teaching.

College/School
Education and Human Sciences

Course Information

Course Title
Life Span Devlopmnt Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
2130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Developmental aspects of psychological functioning from the prenatal period to adulthood with emphasis on individual differences.

College/School
Education and Human Sciences

Course Information

Course Title
Stats & Experimental Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
3010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Fundamental statistics for the behavioral sciences, descriptive uses, probability, one-way, factorial designs, repeated measures and split-plot designs, bivariate correlation and regression, and non-parametrics.

College/School
EH

Requisites and Restrictions

Prerequisite:
Prerequisites: PSY 1030, 3 additional PSY credit hours, a grade of B or higher in MATH1530 or MATH 1630 or MATH 1710 or MATH 1720 or MATH 1730 or MATH 1830 or MATH 1910; 45 hours of completed course work and be a psychology major.

Course Information

Course Title
Careers in Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
3030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The course explores the various career paths that can be taken with a degree in psychology, which may include clinical/counseling, cognitive neuroscience, industrial/organizational, healthcare informatics, education research, and other career applications.

College/School
Education and Human Sciences

Course Information

Course Title
Positive Psy:Sci of Well-Being

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
3040

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The purpose of this course is to examine the fundamentals of positive psychology. Example topics discussed: happiness, courage, optimism, empathy.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Junior standing required.

Course Information

Course Title
Parapsychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
3050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PSY 1030 with a grade of C or better. An examination of unusual experiences such as ESP, precognition, psychokinesis, ghosts and other paranormal events and the ways these phenomena are investigated by psychologists including the methodological errors that an affect the research.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 1030.

Course Information

Course Title
Introduction to Neuroscience

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
3060

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
An introduction to the field of neuroscience.

College/School
Education and Human Sciences

Syllabus
CP01a_SYL_PSY 3060_EffF25.docx

Course Information

Course Title
Research Methods

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
3111

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Methods and techniques of research in general experimental psychology. Emphasis on design, data collection, analysis, and report writing.

College/School
Education and Human Sciences

Syllabus
PSY3111 Research Methods Syllabus (2).docx

Requisites and Restrictions

Prerequisite:
Minimum grade of C in PSY 3010.

Course Information

Course Title
Adv. Developmental Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
3130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Examines human development from infancy through childhood, integrating theory and research to understand how children grow physically, cognitively, socially, emotionally, and morally. Emphasis is placed on critically examining research and its implications for understanding development.

College/School
Education and Human Sciences

Syllabus
CP03a_SYL_PSY_3130_Dec2_2025_Efff26.docx

Requisites and Restrictions

Prerequisite:
Junior or Senior standing, and completion of PSY 2130 with minimum grade of C.

Course Information

Course Title
Intro to Social Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
3300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PSY 2010. Introduction to methods in social psychology and processes of social influence.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 1030.

Course Information

Course Title
Industrial Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
3400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to the areas of employee selection, training, performance appraisal, theories, work motivation, and development.

College/School
Education and Human Sciences

Course Information

Course Title
Group Dynamics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
3410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Group development, the individual in group processes, interaction, leadership, and decision-making.

College/School
Education and Human Sciences

Course Information

Course Title
Learning and Cognition

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Theory, research and applications in human learning, and memory and cognitive processes.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: PSY1030 and grade of C or higher in PSY3010.

Course Information

Course Title
Child Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Hereditary and environmental influence on physical and psychological growth. Cognitive, affective and language development of infant and child with an emphasis on disorders and problems in development.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 1030 and PSY 2130

Course Information

Course Title
Sensation and Perception

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
An introduction to the field of sensation and perception.

College/School
Education and Human Sciences

Syllabus
CP01b_SYL_PSY 4120_EffF25.docx

Requisites and Restrictions

Prerequisite:
Senior standing required.

Course Information

Course Title
Brain and Behavior

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Biological approach to understanding behavior. Students will focus on the anatomy and physiology of the nervous system in reference to behavior, perception, mental disorders, and drug action.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 1030 and PSY 2130.

Course Information

Course Title
Health Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4140

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Biopsychosocial approach to examining how stress, personality, and lifestyle are related to physical health. Students will experientially explore a variety of coping strategies and relaxation techniques geared toward self-assessment and understanding. Student enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 4150 or PSY 4160

Course Information

Course Title
Psychology of Personality

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Application of psychological principles to an understanding of personality, development, and interpersonal adjustments.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 1030.

Course Information

Course Title
Abnormal Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4160

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Nature of abnormal behavior, etiology, symptomatology and treatment.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite PSY 1030 and 3 additional PSY credits

Course Information

Course Title
Legal Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4170

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to representative areas of Legal Psychology. Applying knowledge and theories from social, cognitive, and developmental psychology to issues facing the legal system.

College/School
Education and Human Sciences

Syllabus
CP02a_SYL_PSY__4170__5170_Nov4_2025_Efff26.docx

Psychology of Emotion: Theory and Research

Course Information

Course Title
Psy of Emotion: Theory & Rsrch

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4180

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Examination of major theories and empirical research on emotion, including evolutionary theories, cognitive processes, and influence on behavior.

College/School
Education and Human Sciences

Syllabus
CP02c_SYL_PSY__4180_5180_Nov4_2025_EffF26.docx

Course Information

Course Title
Adolescent Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Origin and principles of behavior with emphasis on educational problems in guiding growth and development of adolescents.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 1030.

Course Information

Course Title
Intro to Psychological Testing

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Basic concepts in psychological testing, interpreting test scores, and types of standardized tests.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 1030.

Course Information

Course Title
Intro-Therapeutic Techq

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PSY 4150 or 4160 or consent of instructor. An introduction to various therapeutic techniques including analytic, nondirective, and broadly based behavioral approaches.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 4150 (5150) or PSY 4160 (5160).

Course Information

Course Title
Psychopharmacology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing. Drugs: the interaction between psychological and physiological effects on behavior.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 1030.

Course Information

Course Title
Data Analytics in Psy

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4600

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Repeatable for Credit:
No

Course Description
Prerequisite: PSY 3010 and PSY 3111 with a B or better. Advanced topics in data analysis, graphing, and interpretation of psychological measures.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: PSY 3010 and PSY 3111 with a B or better.

Course Information

Course Title
History of Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4800

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PSY 2010. Theoretical systems, experiments, and personalities in the development of modern psychology.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 1030.

Course Information

Course Title
Concepts of Gerontology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: PSY 3200 or 3300 or SOC 1010. Physical and psychosocial aging processes. Issues in the care of the senior adult.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 2130 or PSY 3300 or SOC 1010.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4903

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior standing or consent of instructor. Concentration on a special topic in psychology. Course may be repeated if topic is different. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Junior standing.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4913

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior standing or consent of instructor. Concentration on a special topic in psychology. Course may be repeated if topic is different. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Junior standing.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4921

Credit Hours

Credit Hours:
1

Other Hours

Min:
3

Course Description
Prerequisite: Consent of instructor. Concentration on a special topic in psychology.

College/School
Education and Human Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4922

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Consent of instructor. Concentration on a special topic in psychology.

College/School
Education and Human Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4923

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of instructor. Concentration on a special topic in psychology.

College/School
Education and Human Sciences

Course Information

Course Title
Senior Thesis

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4930

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Minimum grade of C in PSY 3010 and PSY 3111 and consent of instructor. Capstone experience that requires students to conduct an original research project, which ties together previously learned statistical methods, research skills, and oral/written communication skills. Students complete all work through the presentation of the research proposal.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: Minimum grade of C in PSY 3010 and PSY 3111 and consent of instructor.

Course Information

Course Title
Senior Thesis

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4931

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: PSY 4930 and consent of instructor. Capstone experience that requires students to conduct an original research project, which ties together previously learned statistical methods, research skills, and oral/written communication skills. Students complete the data collection, statistical analysis, and final write-up.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PSY 4930.

Course Information

Course Title
Field Experience in Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4940

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior standing and consent of instructor. Supervised application of psychology in educational, therapeutic, or commercial institutions. Student is required to identify the location, establish an agreement with an individual willing to supervise the experience from the location and complete all necessary documentation from faculty instructor of record. May be repeated up to 6 credit hours as long as each practicum assignment is substantially different.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Junior standing required.

Course Information

Course Title
Research Assistant Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4950

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
2

Course Description
Hands-on research opportunity under supervision of a faculty member.

College/School
Education and Human Sciences

Syllabus
CP01c_SYL_PSY 4950_EffF25.docx

Requisites and Restrictions

Prerequisite:
Psychology majors only.

Course Information

Course Title
Teaching Assistant Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4960

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
2

Course Description
Assisting faculty members with instructional responsibilities.

College/School
Education and Human Sciences

Syllabus
CP01d_SYL_PSY 4960_EffF25.docx

Requisites and Restrictions

Prerequisite:
Psychology majors only.

Course Information

Course Title
Senior Applied Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4990

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
2

Course Description
The Senior Applied Experience course allows students to apply their academic knowledge, skills, and methodologies in psychology through real-world experiences and projects within professional settings. It emphasizes problem-solving, collaboration with industry professionals, and adapting theoretical learning to practical scenarios.

College/School
Education and Human Sciences

Syllabus
CP01e_SYL_PSY 4990_EffF25.docx

Requisites and Restrictions

Prerequisite:
Minimum grade of C in PSY 3111. Psychology majors only, Senior standing and consent of instructor.

Course Information

Course Title
Senior Lab Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
PSY

Course Number
4995

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
4

Course Description
This advanced course provides psychology majors with hands-on experience in the research process, from generating ideas to communicating findings. Students will engage in activities such as conducting literature reviews, developing hypotheses, designing and implementing research studies, and analyzing data. Emphasis is placed on critical thinking and ethical considerations in research.

College/School
Education and Human Sciences

Syllabus
CP01f_SYL_PSY 4995_EffF25.docx

Requisites and Restrictions

Prerequisite:
Minimum grade of C in PSY 3111, Psychology majors only, senior standing, and consent of instructor.

Curriculum and Instruction Department

Professor J. Wendt, Chairperson

The Department of Curriculum and Instruction is responsible for preparing undergraduate teacher-candidates for licensure in one or more teaching fields or grade levels in Pre K-12 and for offering graduate work in curriculum and instruction through the M.A. and Ed.S. degrees.

Additionally, several nonlicensure/practitioner pathways are offered for students desirous of a broad-based degree and background in education but who do not desire to pursue a teaching license.

Programs

CSED-MIN - Computer Science Education Minor

Program Overview

Program Long Title
Computer Science Education Minor

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Minor in Computer Science Education (CSED)

Students may earn a minor in any program outside of their major by taking 9 credit hours in a single area plus 6 credit hours in any other education prefixes * for a total of 15 credit hours. (e.g. 9 hours of CSED plus 6 hours SPED).

(*CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, FOED, PSY, READ, SEED, SPED).

Note: Courses that require admission to Teacher Education or that have co-requisite courses with admission restrictions cannot be taken as part of a minor. Please work with your advisor or the College of Education to identify an appropriate pathway to your minor.

ECED-BK - Early Childhood Education, Birth-K Concentration, B.S.

Program Overview

Program Long Title
Early Childhood Education, Birth-K Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Early Childhood Education, Birth-K Concentration (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Mathematics (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Early Childhood majors meet this requirement with MATH 1420.

Flight Foundations Core - American History (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Select 8 credits of Flight Foundations Scientific Reasoning Electives as follows:

Biology (4 credits)

Non-Biology Course (4 credits) chosen from the Flight Foundations Scientific Reasoning elective.

Early Childhood Education, Integrated Birth-K Concentration Core

Complete ALL of the following Courses:
- ECSP2400 - Children with Special Needs
- ECSP2500 - The Dev Child:Pre-Birth-8
- ECSP3001 - Curr/Infant-Toddler-Preschlr
- ECSP4000 - Dev Approp Pract:Birth-Preschl
- ECSP4010 - Practicum: Preschool Practices
- ECSP4300 - Assessment of Young Children
- ECED3600 - Families, Communities, & Professionals
- ECED4230 - Early Intervention I
- ECED4240 - Early Intervention II
- ECED4261 - Early Childhood Advocacy & Leadership
- ECED4290 - Community Connections
- ECSP4875 - Application of Learning
- ECSP4900 - Residency
- ECSP4925 - Application of Teaching

Additional Program Requirements

Complete ALL of the following Courses:
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3810 - Field Exp in Edu
- READ3310 - Inclusive Early Literacy
- MATH1410 - Number Concepts for Teachers
- MATH1420 - Elementary Geometry Concepts
- READ3330 - Inclusive Emergent Literacy
- FOED3880 - Field Experiences in ECSP

Advisor Guided Electives (4 credits)

Degree Map

Degree Map Name
Degree Plan - Early Childhood Education, Birth-K Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1410 - Number Concepts for Teachers

Actual Credits 3

Requirement Select
- Scientific Reasoning (BIOL) - 4 credits (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH1420 - Elementary Geometry Concepts

Actual Credits 3

Requirement Select
- Scientific Reasoning (non-BIOL) - 4 credits (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ECSP2500 - The Dev Child:Pre-Birth-8

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Advisor Guided Electives (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	13

Requirement Select
- ECSP2400 - Children with Special Needs

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Advisor Guided Elective (1 cr.) (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	17

Requirement Select
- ECED4290 - Community Connections

Actual Credits 3

Requirement Select
- ECSP3001 - Curr/Infant-Toddler-Preschlr

Actual Credits 3

Requirement Select
- ECSP4300 - Assessment of Young Children

Actual Credits 3

Requirement Select
- FOED3810 - Field Exp in Edu

Actual Credits 2

Requirement Select
- READ3310 - Inclusive Early Literacy

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	Second Semester	18

Requirement Select
- ECED4230 - Early Intervention I

Actual Credits 3

Requirement Select
- ECED4261 - Early Childhood Advocacy & Leadership

Actual Credits 7

Requirement Select
- ECSP4000 - Dev Approp Pract:Birth-Preschl

Actual Credits 3

Requirement Select
- ECSP4010 - Practicum: Preschool Practices

Actual Credits 2

Requirement Select
- READ3330 - Inclusive Emergent Literacy

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select
- ECED4240 - Early Intervention II

Actual Credits 3

Requirement Select
- ECED3600 - Families, Communities, & Professionals

Actual Credits 2

Requirement Select
- ECSP4500 - Supportive Interactions & Environments in ECED

Actual Credits 3

Requirement Select
- ECSP4875 - Application of Learning

Actual Credits 3

Requirement Select
- FOED3880 - Field Experiences in ECSP

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	Spring	12

Requirement Select
- ECSP4900 - Residency

Actual Credits 10

Requirement Select
- ECSP4925 - Application of Teaching

Actual Credits 2

ECED-ECPR - Early Childhood Education, Early Childhood Practitioner Concentration, B.S.

Program Overview

Program Long Title
Early Childhood Education, Early Childhood Practitioner Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Early Childhood Education, Early Childhood Practitioner Concentration (120 hours)

Type
Completion Requirement

General Education Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

General Education Core - Quantitative Reasoning (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

General Education Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

General Education Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

General Education Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

General Education Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

General Education Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Early Childhood Education, Early Childhood Practitioner Concentration Core

Complete ALL of the following Courses:
- ECSP2400 - Children with Special Needs
- ECSP2500 - The Dev Child:Pre-Birth-8
- ECSP4100 - Dev Approp Pract/K-4
- ECSP3001 - Curr/Infant-Toddler-Preschlr
- ECED4290 - Community Connections
- ECSP4300 - Assessment of Young Children
- ECED4230 - Early Intervention I
- ECED4261 - Early Childhood Advocacy & Leadership
- ECSP4000 - Dev Approp Pract:Birth-Preschl
- ECSP4010 - Practicum: Preschool Practices
- ECED4240 - Early Intervention II
- ECED3600 - Families, Communities, & Professionals
- ECED4221 - Early Intervention Fld Exp
- ECSP4500 - Supportive Interactions & Environments in ECED
- ECED4280 - Early Childhood Internship II
- ECED4275 - Internship I Seminar (Inactive)

Additional Program Requirements

Complete ALL of the following Courses:
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3810 - Field Exp in Edu
- FOED3880 - Field Experiences in ECSP
- READ3330 - Inclusive Emergent Literacy

ADDITIONAL REQUIREMENTS:

Advisor Guided Electives (3 cr.)

Quantitative Reasoning & Analysis (6 credits): select 6 hours from MATH 1410, MATH1420, or any approved Quantitative Reasoning Analysis General Education elective.

Additional Comments:
Note:

- HEC majors and ECED Practitioner majors may take advisor approved upper division courses without admission to Teacher Education.

Degree Map

Degree Map Name
Degree Plan - Early Childhood Practitioner, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year

2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)
  OR
- MATH1410 - Number Concepts for Teachers

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)
  OR
- MATH1420 - Elementary Geometry Concepts

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ECSP2500 - The Dev Child:Pre-Birth-8

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Advisor Guided Electives (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	12

Requirement Select
- ECSP2400 - Children with Special Needs

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	12

Requirement Select
- ECSP3001 - Curr/Infant-Toddler-Preschlr

Actual Credits 3

Requirement Select
- ECSP4100 - Dev Approp Pract/K-4

Actual Credits 3

Requirement Select
- ECSP4300 - Assessment of Young Children

Actual Credits 3

Requirement Select
- ECED4290 - Community Connections

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	18

Requirement Select
- ECED4230 - Early Intervention I

Actual Credits 3

Requirement Select
- ECED4261 - Early Childhood Advocacy & Leadership

Actual Credits 7

Requirement Select
- ECSP4000 - Dev Approp Pract:Birth-Preschl

Actual Credits 3

Requirement Select
- ECSP4010 - Practicum: Preschool Practices

Actual Credits 2

Requirement Select
- READ3330 - Inclusive Emergent Literacy

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- ECED4221 - Early Intervention Fld Exp

Actual Credits 3

Requirement Select
- ECED4240 - Early Intervention II

Actual Credits 3

Requirement Select
- ECED3600 - Families, Communities, & Professionals

Actual Credits 2

Requirement Select
- ECSP4500 - Supportive Interactions & Environments in ECED

Actual Credits 3

Requirement Select
- FOED3810 - Field Exp in Edu

Actual Credits 2

Requirement Select
- FOED3880 - Field Experiences in ECSP

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	Second Semester	16

Requirement Select
- ECED4280 - Early Childhood Internship II

Actual Credits 7

Requirement Select
- ECED4275 - Internship I Seminar

Actual Credits 9

Requirement Select
- * HEC majors and ECED Practitioner majors may take advisor approved upper division courses without admission to Teacher Education. (Generic)

Actual Credits -

ECED-MIN - Early Childhood Education Minor

Program Overview

Program Long Title
Early Childhood Education Minor

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Minor in Early Childhood Education (ECED)

Students may earn a minor in any program outside of their major by taking 9 credit hours in a single area plus 6 credit hours in any other education prefixes *for a total of 15 credit hours. (e.g. 9 hours of ECED or ECSP plus 6 hours SPED).* (CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, FOED, PSY, READ, SEED, SPED).

Note: Courses that require admission to Teacher Education or that have co-requisite courses with admission restrictions cannot be taken as part of a minor. Please work with your advisor or the College of Education to identify an appropriate pathway to your minor.

ECED-PK3 - Early Childhood Education, PreK-3 Concentration, B.S.

Program Overview

Program Long Title
Early Childhood Education, PreK-3 Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Early Childhood Education, PreK-3 Concentration, B.S. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Early Childhood Education majors meet this requirement with MATH 1420.

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Select 8 credits of Flight Foundations Scientific Reasoning Electives as follows:

Biology (4 cr.)

Non-Biology Course (4 cr.) chosen from the Flight Foundations Scientific Reasoning elective.

Early Childhood Education, Early Childhood/Special Education, PreK-3 Concentration Core

Complete ALL of the following Courses:
- ECED3150 - Science/Social St for Yng Chld
- ECSP2400 - Children with Special Needs
- ECSP2500 - The Dev Child:Pre-Birth-8
- ECSP3001 - Curr/Infant-Toddler-Preschlr
- ECSP4000 - Dev Approp Pract:Birth-Preschl
- ECSP4010 - Practicum: Preschool Practices
- ECSP4100 - Dev Approp Pract/K-4
- ECSP4300 - Assessment of Young Children
- ELED3155 - Foundational Mathematics Mthds
- ECED4230 - Early Intervention I
- ESLP4100 - ESL Methods and Materials for PreK-12
- READ3330 - Inclusive Emergent Literacy
- ECSP4875 - Application of Learning
- ECSP4900 - Residency
- ECSP4925 - Application of Teaching

Additional Program Requirements

Complete ALL of the following Courses:
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3810 - Field Exp in Edu
- READ3310 - Inclusive Early Literacy
- MATH1410 - Number Concepts for Teachers
- MATH1420 - Elementary Geometry Concepts
- SPED4400 - Individualized Stu Planning

FOED 3810 - 2 credits required.

FOED 3880 - 2 credits required.

Advisor Guided Electives - 4 credits required.

Flight Foundations Core-Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial & Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Early Childhood Education, PreK-3, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year

2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1410 - Number Concepts for Teachers

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH1420 - Elementary Geometry Concepts

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ECSP2500 - The Dev Child:Pre-Birth-8

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Advisor Guided Electives (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	13

Requirement Select
- ECSP2400 - Children with Special Needs

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Advisor Guided Elective (1 cr.) (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	17

Requirement Select
- ECSP3001 - Curr/Infant-Toddler-Preschlr

Actual Credits 3

Requirement Select
- ECSP4100 - Dev Approp Pract/K-4

Actual Credits 3

Requirement Select
- ECSP4300 - Assessment of Young Children

Actual Credits 3

Requirement Select
- FOED3810 - Field Exp in Edu

Actual Credits 2

Requirement Select
- READ3310 - Inclusive Early Literacy

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	Second Semester	17

Requirement Select
- ECED4230 - Early Intervention I

Actual Credits 3

Requirement Select
- ECSP4000 - Dev Approp Pract:Birth-Preschl

Actual Credits 3

Requirement Select
- ECSP4010 - Practicum: Preschool Practices

Actual Credits 2

Requirement Select
- ECED3150 - Science/Social St for Yng Chld

Actual Credits 3

Requirement Select
- ELED3155 - Foundational Mathematics Mthds

Actual Credits 3

Requirement Select
- READ3330 - Inclusive Emergent Literacy

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- ECSP4500 - Supportive Interactions & Environments in ECED

Actual Credits 3

Requirement Select
- ECSP4875 - Application of Learning

Actual Credits 3

Requirement Select
- ESLP4100 - ESL Methods and Materials for PreK-12

Actual Credits 3

Requirement Select
- FOED3880 - Field Experiences in ECSP

Actual Credits 2

Requirement Select
- SPED4400 - Individualized Stu Planning

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- ECSP4900 - Residency

Actual Credits 10

Requirement Select
- ECSP4925 - Application of Teaching

Actual Credits 2

EDUC-MIN - Education Minor

Program Overview

Program Long Title
Education Minor

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Minor in Education (EDUC)

Any combination of 15 semester hours chosen from Art Education (ARED), Computer Science Education (CSED), Curriculum Education (CUED), Early Childhood Education (ECED), Early Childhood Special Education (ECSP), Educational Psychology (PSY 2210), Elementary Education (ELED), English as a Second Language Pedagogy (ESLP), English as a Second or Other Language (ESOL), Foundations of Education (FOED), Music Education (MUED), Reading (READ), Secondary Education (SEED), Service Learning (SVCL-limit 3 credit hours), and Special Education (SPED).

Note: Courses that require admission to Teacher Education or that have co-requisite courses with admission restrictions cannot be taken as part of a minor. Please work with your advisor or the College of Education to identify an appropriate pathway to your minor.

ELED-BS - Elementary Education, B.S.

Program Overview

Program Long Title
Elementary Education, B.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Elementary Education, B.S. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis(3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Elementary Education majors meet this requirement with MATH 1420

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

GEOG 1012 completes three (3) of the six (6) required hours.

Flight Foundations Core - Scientific Reasoning (8 credits)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Elementary Education, B.S. Core

Complete ALL of the following Courses:
- CUED3500 - Classroom Design & Management for ELED
- CUED4725 - Data, Assessment, & Evaluation
- ECSP4100 - Dev Approp Pract/K-4
- ESLP4100 - ESL Methods and Materials for PreK-12
- PSY2210 - Educational Psychology
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3810 - Field Exp in Edu
- ELED3142 - Teaching of Social Studies
- ELED3155 - Foundational Mathematics Mthds
- FOED3800 - Field Exp in Edu
- ELED3152 - Teaching of Mathematics
- ELED4142 - Teaching of Science
- ELED4900 - Residency
- ELED4925 - Application of Teaching
- READ3325 - Advanced Literacy Methods
- SPED3001 - Supporting all Learners in Elementary Education

Additional Program Requirements

Complete ALL of the following Courses:
- MATH1410 - Number Concepts for Teachers
- MATH1420 - Elementary Geometry Concepts
- MATHELEC - Math Elective
- GEOG1012 - Cultural Geography

Science Requirement (12 credits):

Biology (4 credits)

Non-Biology Course (4 credits)

Biology or non-Biology science elective (4 credits)

Advisor Guided Electives (2credits) OR

FOED 3820-Field Experience in Education (2 credits)

are required to complete 120 earned hours.

Additional Program Requirements

Select 6 credit hours from the following:
ESLP 4200-ESL Assessment: Reading & Writing AND
ESOL 4400-Foundations of Language for ESOL Educ OR
CUED 4400-Teaching Methods/Physical Science AND
SEED 4123-Methods/Materials-Teaching/Sciences OR
Advisor Guided Electives (Fast Track options-6 cr hrs)1

1 Choose any 5000/6000/7000 level Advisor Guided Fast Track Course from the following subjects: CSED, CUED, ECED, ECSP, EDUB, ELED, ESLP, ESOL, EXPW, FOED, LSCI, READ, SEED, or SPED.

Degree Map

Degree Map Name
Degree Plan - Elementary Education, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative

Note: Twelve credit (12) hours of Scientific Reasoning are required for the Elementary Education program. Four credit (4) hours must be BIOL and four credit (4) hours must be non-BIOL.

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select
- MATH1410 - Number Concepts for Teachers

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (BIOL) - (4 credits) (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- GEOG1012 - Cultural Geography

Actual Credits 3

Requirement Select
- MATH1420 - Elementary Geometry Concepts

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Scientific Reasoning (non-BIOL) - (4 credits) (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH Elective (3 credits) (Generic)

Actual Credits 3

Requirement Select
- CUED3500 - Classroom Design & Management for ELED

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	17

Requirement Select
- ELED3155 - Foundational Mathematics Mthds

Actual Credits 3

Requirement Select
- ECSP4100 - Dev Approp Pract/K-4

Actual Credits 3

Requirement Select
- ESLP4100 - ESL Methods and Materials for PreK-12

Actual Credits 3

Requirement Select
- FOED3810 - Field Exp in Edu

Actual Credits 2

Requirement Select
- READ3320 - Literacy Methods

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- ELED3142 - Teaching of Social Studies

Actual Credits 3

Requirement Select
- ELED3152 - Teaching of Mathematics

Actual Credits 3

Requirement Select
- ELED4142 - Teaching of Science

Actual Credits 3

Requirement Select
- FOED3800 - Field Exp in Edu

Actual Credits 2

Requirement Select
- SPED3001 - Supporting all Learners in Elementary Education

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- Advisor Guided Electives (2 cr) OR FOED 3820-Field Experiences in Education (2 cr)
  (Generic)

Actual Credits 2

Requirement Select
- CUED4725 - Data, Assessment, & Evaluation

Actual Credits 3

Requirement Select
- READ3325 - Advanced Literacy Methods

Actual Credits 3

Requirement Select
- ESLP4200 - ESL Assessment and Writing
- **AND** ESOL4400 - ESOL 4400: Foundations of Language for ESOL Educators
  OR
- CUED4400 - Teaching Methods/Physical Science
- **AND** SEED4123 - Mtrls/Meth-Tch the Sciences
  OR
- Advisor Guided Electives (Fast Track options - 6 credits)
  (Generic)

Actual Credits 6

Requirement Select
- 1 Choose any 5000/6000/7000 level Advisor Guided Fast Track Course from the following subjects: CSED, CUED, ECED, ECSP, EDUB, ELED, ESLP, ESOL, EXPW, FOED, LSCI, READ, SEED, or SPED.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select

- ELED4900 - Residency

Actual Credits 10

Requirement Select

- ELED4925 - Application of Teaching

Actual Credits 2

ELED-MIN - Elementary Education Minor

Program Overview

Program Long Title
Elementary Education Minor

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Minor in Elementary Education (ELED)

Students may earn a minor in any program outside of their major by taking 9 credit hours in a single area plus 6 credit hours in any other education prefixes* for a total of 15 credit hours. (e.g. 9 hours of ELED plus 6 hours SPED).

(*CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, FOED, PSY, READ, SEED, SPED).

Note: Courses that require admission to Teacher Education or that have co-requisite courses with admission restrictions cannot be taken as part of a minor. Please work with your advisor or the College of Education to identify an appropriate pathway to your minor.

ESLP-MIN - English as a Second Language Minor

Program Overview

Program Long Title
English as a Second Language Minor

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Minor in English as a Second Language (ESLP)

Students may earn a minor outside their major by taking a total of 15 credit hours in the following: minimum 9 credit hours in ESLP or ESOL, minimum 3 credit hours in CUED, minimum 3 credit hours in FOED.

Note: Courses that require admission to Teacher Education or that have co-requisite courses with admission restrictions cannot be taken as part of a minor. Please work with your advisor or the College of Education to identify an appropriate pathway to your minor.

FOED-MIN - Foundations of Education Minor

Program Overview

Program Long Title
Foundations of Education Minor

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Minor in Foundations of Education (FOED)

Students may earn a minor in any program outside of their major by taking 9 credit hours in a single area plus 6 credit hours in any other education prefixes *for a total of 15 credit hours. (e.g. 9 hours of FOED plus 6 hours SPED).* (CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, FOED, PSY, READ, SEED, SPED).

Note: Courses that require admission to Teacher Education or that have co-requisite courses with admission restrictions cannot be taken as part of a minor. Please work with your advisor or the College of Education to identify an appropriate pathway to your minor.

MDS-CSED - Multidisciplinary Studies, Computer Science Education Concentration, B.S.

Program Overview

Program Long Title
Multidisciplinary Studies, Computer Science Education Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Multidisciplinary Studies, Computer Science Education Concentration, B.S. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

The General Education Math requirement is met with MATH 1730 or MATH 1910 for this concentration.

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Multidisciplinary Studies, Computer Science Education Concentration Core

Complete ALL of the following Courses:
- CSED3000 - Digital Literacy & Computing
- CSED3010 - Prgmg Fundmtls & Cmpt Thinking for Educ
- CSED3020 - Comp Sci Concepts/Teachers
- CSED3030 - Comp Sci Instructional Methods
- CUED3505 - Classroom Design & Management for SEED
- CUED4150 - Middle Level Curriculum
- CUED4725 - Data, Assessment, & Evaluation
- ESLP3100 - ESL Pedagogy: Secondary Education Methodology and Materials
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3820 - Field Exp in Education
- READ3350 - Teach Reading/Content Areas
- SPED3000 - Supporting all Learners in Secondary Education
- SEED4875 - Application of Learning
- SEED4900 - Residency
- SEED4925 - Application of Teaching

Additional Program Requirements

Complete ALL of the following Courses:
- CSC1200 - Principles of Computing
- CSC1300 - Intro/Prob Solving-Comp Prog
- MATH1730 - Pre-Calculus Math
- MATH1910 - Calculus I
- MATH2010 - Introduction to Linear Algebra

Additional Program Requirements

Upper Division (3000-4000 level) Electives (4 credits);

Complete 4 credits at the 3000-4000 level.

General Electives (9 hours):

Additional free electives are required to complete 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Multidisciplinary Studies, Computer Science Education Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits

Freshman Year	First Semester	15

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select
- MATH1730 - Pre-Calculus Math

Actual Credits 5

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- CSC1200 - Principles of Computing

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Elective (3 credits) (Generic)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- CUED3505 - Classroom Design & Management for SEED

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- CSED3000 - Digital Literacy & Computing

Actual Credits 3

Requirement Select
- CSED3010 - Prgmg Fundmtls & Cmpt Thinking for Educ

Actual Credits 3

Requirement Select
- CUED4725 - Data, Assessment, & Evaluation

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- FOED3820 - Field Exp in Education

Actual Credits 1

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- CSED3020 - Comp Sci Concepts/Teachers

Actual Credits 3

Requirement Select
- CSED3030 - Comp Sci Instructional Methods

Actual Credits 3

Requirement Select
- ESLP3100 - ESL Pedagogy: Secondary Education Methodology and Materials

Actual Credits 1

Requirement Select
- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Requirement Select
- Upper Division (3000-4000-level) Electives (4 credits) (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- SPED3000 - Supporting all Learners in Secondary Education

Actual Credits 3

Requirement Select
- CUED4150 - Middle Level Curriculum

Actual Credits 3

Requirement Select
- Elective (6 credits) (Generic)

Actual Credits 6

Requirement Select
- SEED4875-Application of Learning (3 credits) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- SEED4900 - Residency

Actual Credits 10

Requirement Select
- SEED4925 - Application of Teaching

Actual Credits 2

MDS-ESLP - Multidisciplinary Studies, English as A Second Language Concentration, B.S.

Program Overview

Program Long Title
Multidisciplinary Studies, English as A Second Language Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Multidisciplinary Studies, English as a Second Language Concentration, B.S. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (4 hours)

Earn at least 4 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (9 hours)

Earn at least 9 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Multidisciplinary Studies, English as a Second Language Concentration Core

Complete ALL of the following Courses:
- CUED3500 - Classroom Design & Management for ELED
  OR CUED3505 - Classroom Design & Management for SEED
- PSY2210 - Educational Psychology
- ESLP4100 - ESL Methods and Materials for PreK-12
  OR TEAE4020 - Read, Write, Learn Methods ESL
- FOED3810 - Field Exp in Edu
- SPED3001 - Supporting all Learners in Elementary Education
- ECSP4100 - Dev Approp Pract/K-4
- ELED3155 - Foundational Mathematics Mthds
- READ3335 - Literacy/Exceptional Learners
- SPED3015 - Applying University Learning Principles
- LING4511 - Intro to Descriptive Ling
  OR ENGL4511 - Intro/Descriptive Linguistics
  OR TEAE4500 - Linguistics
  OR ESOL4400 - ESOL 4400: Foundations of Language for ESOL Educators
- ESLP4200 - ESL Assessment and Writing
  OR TEAE4437 - Assessment for ESL
- CUED4725 - Data, Assessment, & Evaluation
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3840 - Field Experiences in ESL
- SPED4155 - Collaborative Practices
- ELED4900 - Residency
- ELED4925 - Application of Teaching

Additional Program Requirements

Complete ALL of the following Courses:
- SPAN1010 - Elementary Spanish I
- SPAN3510 - Spain-Country & People
  OR SPAN3550 - Latin America:Country & People
- SPAN1020 - Elementary Spanish II

Advisor Guided Electives (5 credits) are required to complete 120 earned hours.

Electives (3 credits)

Degree Map

Degree Map Name
Degree Plan - Multidisciplinary Studies, English as a Second Language Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Electives - (3 credits) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Financial & Digital Literacy (FFDL) - (4 credits) (Generic)

Actual Credits 4

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- SPAN1010 - Elementary Spanish I

Actual Credits 3

Requirement Select
- CUED3500 - Classroom Design & Management for ELED

  OR
- CUED3505 - Classroom Design & Management for SEED

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- SPAN3510 - Spain-Country & People

  OR
- SPAN3550 - Latin America:Country & People

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- SPAN1020 - Elementary Spanish II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	14

Requirement Select
- FOED3810 - Field Exp in Edu

Actual Credits 2

Requirement Select
- READ3320 - Literacy Methods

Actual Credits 6

Requirement Select
- SPED3001 - Supporting all Learners in Elementary Education

Actual Credits 3

Requirement Select
- ESLP4100 - ESL Methods and Materials for PreK-12
  OR
- TEAE4020 - Read, Write, Learn Methods ESL

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	17

Requirement Select
- ECSP4100 - Dev Approp Pract/K-4

Actual Credits 3

Requirement Select
- SPED3015 - Applying University Learning Principles

Actual Credits 2

Requirement Select
- ENGL4511 - Intro/Descriptive Linguistics
  OR
- LING4511 - Intro to Descriptive Ling
  OR
- TEAE4500 - Linguistics
  OR
- ESOL4400 - ESOL 4400: Foundations of Language for ESOL Educators

Actual Credits 3

Requirement Select
- ESLP4200 - ESL Assessment and Writing
  OR
- TEAE4437 - Assessment for ESL

Actual Credits 3

Requirement Select
- READ3335 - Literacy/Exceptional Learners

Actual Credits 3

Requirement Select
- ELED3155 - Foundational Mathematics Mthds

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- CUED4725 - Data, Assessment, & Evaluation

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- Advisor Guided Electives (Generic)

Actual Credits 5

Requirement Select
- FOED3840 - Field Experiences in ESL

Actual Credits 2

Requirement Select
- SPED4155 - Collaborative Practices

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- ELED4900 - Residency

Actual Credits 10

Requirement Select
- ELED4925 - Application of Teaching

Actual Credits 2

MDS-MDGE - Multidisciplinary Studies, Generalist Concentration, B.S.

Program Overview

Program Long Title
Multidisciplinary Studies, Generalist Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Multidisciplinary Studies, Generalist Concentration, B.S. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Humanities & Cultural Expression (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Multidisciplinary Studies, Generalist Concentration Core

Complete all of the following:

Education Electives (6 credits) - Upper Division (3000-4000 level):

Take 6 hours of upper division electives from CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, EXPW, FOED, LSCI, PSY, READ, SEED, SPED or SVCL.

Education Electives (6 credits):

Take 6 hours of electives from CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, EXPW, FOED, LSCI, PSY, READ, SEED, SPED or SVCL.

Additional Program Requirements

Focus Area or Minor (16 credits)

Guided Electives (15 credits):

Guided electives must be taken with Advisor approval.

General Electives (36 hours):

Additional free electives are required to complete 120 earned hours.

Flight Foundations Core - Financial & Digital Literacy (4 hours)

Earn at least 4 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Multidisciplinary Studies, Generalist, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Elective (3cr)
  (Generic)

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Financial & Digital Literacy (4 credits)
  (Generic)

Actual Credits 4

Requirement Select
- Electives (6 credits)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Elective (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Electives (9credits)
  (Generic)

Actual Credits 9

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- Guided Electives (Advisor Approved) (9 credits)
  (Generic)

Actual Credits 9

Requirement Select
- General Electives (6 credits)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Guided Electives (Advisor Approved) - (6 hours)
  (Generic)

Actual Credits 6

Requirement Select
- Electives (9 credits)
  (Generic)

Actual Credits 9

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- Education Electives (3000/4000 level) - (6 credits) (Generic)

Actual Credits 6

Requirement Select

- Focus Area (9 credits) (Generic)

  OR
- Minor (9 credits) (Generic)

Actual Credits 9

Requirement Select

- Select Education Electives from: CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, EXPW, FOED, LSCI, PSY, READ, SEED, SPED, or SVCL. (6 credits) (Generic) (Generic)

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select

- Education Electives (6 credits) (Generic)

Actual Credits 6

Requirement Select

- Focus Area (7 credits) (Generic)

  OR
- Minor (7 credits) (Generic)

Actual Credits 7

Requirement Select

- Select Education Electives from: CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, EXPW, FOED, LSCI, PSY, READ, SEED, SPED, or SVCL. (6 credits) (Generic)

Actual Credits -

MDS-MSM - Multidisciplinary Studies, Middle School Math 6-8 Concentration, B.S.

Program Overview

Program Long Title

Multidisciplinary Studies, Middle School Math 6-8 Concentration, B.S.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Requirements

Simple Requirements

Multidisciplinary Studies, Middle School Math, 6-8 Concentration (120 hours)

Type

Completion Requirement

Flight Foundations Core - Communication (6 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (4 hours)

Earn at least 4 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (9 hours)

Earn at least 9 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

Multidisciplinary Studies, Middle School Math, 6-8 Concentration Core

Complete ALL of the following Courses:

- CSED3000 - Digital Literacy & Computing
- CSED3010 - Prgmg Fundmtls & Cmpt Thinking for Educ
- CUED3505 - Classroom Design & Management for SEED
- CUED4725 - Data, Assessment, & Evaluation
- ESLP3200 - Teaching English Learners in Secondary Classrooms
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3820 - Field Exp in Education
- READ3350 - Teach Reading/Content Areas
- SEED4122 - Mtrls/Meth-Tch Math
- SEED4322 - Teaching Algebra in Middle/HS
- SEED4422 - Teach Sec Math Using Techn
- SEED4875 - Application of Learning
- SEED4900 - Residency
- SEED4925 - Application of Teaching
- SPED3000 - Supporting all Learners in Secondary Education

Additional Program Requirements

Complete ALL of the following Courses:

- MATH1410 - Number Concepts for Teachers
- MATH1420 - Elementary Geometry Concepts
- MATH1530 - Introductory Statistics
- MATH1710 - Pre-Calculus Algebra
- MATH1720 - Pre-calculus Trigonometry
- MATH1910 - Calculus I

Advisor Guided Electives (7 credits) **and**

Upper Division Elective (3 credits) is required to complete 120 earned hours.

Flight Foundations Core - Communication (Oral Communication) (3 hours)

Earn at least 3 credits from the following:

- Communication (GEDC) - Oral Communication

Degree Map

Degree Map Name
Degree Plan - Multidisciplinary Studies, Middle School Math, 6-8 Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- MATH1410 - Number Concepts for Teachers

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select

- MATH1420 - Elementary Geometry Concepts

Actual Credits 3

Requirement Select

- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 4

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- CSED3000 - Digital Literacy & Computing

Actual Credits 3

Requirement Select
- CUED3505 - Classroom Design & Management for SEED

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1720 - Pre-calculus Trigonometry

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- CSED3010 - Prgmg Fundmtls & Cmpt Thinking for Educ

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- SEED4322 - Teaching Algebra in Middle/HS

Actual Credits 3

Requirement Select
- SEED4422 - Teach Sec Math Using Techn

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	17

Requirement Select
- FOED3820 - Field Exp in Education

Actual Credits 2

Requirement Select
- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Requirement Select
- SEED4122 - Mtrls/Meth-Tch Math

Actual Credits 3

Requirement Select
- CUED4725 - Data, Assessment, & Evaluation

Actual Credits 3

Requirement Select
- Upper Division Elective (3 credits) (Generic)

Actual Credits 3

Requirement Select
- Advisor Guided Electives (3 hours) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select
- Advisor Guided Electives (4 credits) (Generic)

Actual Credits 4

Requirement Select
- SEED4875 - Application of Learning

Actual Credits 3

Requirement Select

- SPED3000 - Supporting all Learners in Secondary Education

Actual Credits 3

Requirement Select

- ESLP3200 - Teaching English Learners in Secondary Classrooms

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select

- SEED4900 - Residency

Actual Credits 10

Requirement Select

- SEED4925 - Application of Teaching

Actual Credits 2

MDS-MSSC - Multidisciplinary Studies, Middle School Science 6-8 Concentration, B.S.

Program Overview

Program Long Title

Multidisciplinary Studies, Middle School Science 6-8 Concentration, B.S.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Requirements

Simple Requirements

Multidisciplinary Studies, Middle School Science, 6-8 Concentration Core

Type

Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Multidisciplinary Studies, Middle School Science, 6-8 Concentration Core

Complete ALL of the following Courses:

- CUED3505 - Classroom Design & Management for SEED
- CUED4400 - Teaching Methods/Physical Science
- CUED4725 - Data, Assessment, & Evaluation
- ESLP3200 - Teaching English Learners in Secondary Classrooms
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3820 - Field Exp in Education
- READ3350 - Teach Reading/Content Areas
- SEED4123 - Mtrls/Meth-Tch the Sciences
- SEED4875 - Application of Learning
- SEED4900 - Residency
- SEED4925 - Application of Teaching
- SPED3000 - Supporting all Learners in Secondary Education

CSED Upper Division Elective (6 hours)

Additional Program Requirements

Complete ALL of the following Courses:

- ASTR1010 - Intro to Modern Astronomy I
  OR ASTR1020 - Intro to Modern Astronomy II
- BIOL1113 - General Biology I
- BIOL3120 - General Ecology
- CHEM1110 - General Chemistry I
- GEOL1045 - Earth Environ Resrces Soc
- MATH1530 - Introductory Statistics
- MATH1710 - Pre-Calculus Algebra
- PHYS2010 - Algebra-based Physics I
- PSY2210 - Educational Psychology
- ELECTIVE - Elective Credit

Advisor Guided Electives (3 credits) and Upper Division Elective (3 credits) are required to complete 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Multidisciplinary Studies, Middle School Science, 6-8 Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select

- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select

- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select

- GEOL1045 - Earth Environ Resrces Soc

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select

- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- ASTR1010 - Intro to Modern Astronomy I
  OR
- ASTR1020 - Intro to Modern Astronomy II

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select

- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- BIOL3120 - General Ecology

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- CUED4400 - Teaching Methods/Physical Science

Actual Credits 3

Requirement Select
- CUED4725 - Data, Assessment, & Evaluation

Actual Credits 3

Requirement Select
- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- CSED Upper Division Elective (3 credits) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- FOED3820 - Field Exp in Education

Actual Credits 2

Requirement Select
- SEED4123 - Mtrls/Meth-Tch the Sciences

Actual Credits 3

Requirement Select
- CUED3505 - Classroom Design & Management for SEED

Actual Credits 3

Requirement Select
- Upper Division Elective (3 credits) (Generic)

Actual Credits 3

Requirement Select
- CSED Upper Division Elective (3 credits) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- SPED3000 - Supporting all Learners in Secondary Education

Actual Credits 3

Requirement Select
- SEED4875 - Application of Learning (3 cr) (Generic)

Actual Credits 3

Requirement Select

- FOED3860 - Field Experiences in Education

Actual Credits 2

Requirement Select

- Advisor Guided Electives (3 credits)
  (Generic)

Actual Credits 3

Requirement Select

- ESLP3200-Teaching English Learners/SEED Classroom (3 cr)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select

- SEED4900 - Residency

Actual Credits 10

Requirement Select

- SEED4925 - Application of Teaching

Actual Credits 2

MIDG-MIN - Middle Grades Minor

Program Overview

Program Long Title
Middle Grades Minor

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Minor in Middle Grades (MIDG)

Students may earn a minor outside their major by taking a total of 15 credit hours in the following: minimum 3 credit hours in CUED, minimum 3 credit hours in SEED, minimum 3 credit hours in READ, 6 credit hours in any of the following: SPED, PSY 2210, FOED, ESLP or ESOL.

Note: Courses that require admission to Teacher Education or that have co-requisite courses with admission restrictions cannot be taken as part of a minor. Please work with your advisor or the College of Education to identify an appropriate pathway to your minor.

READ-MIN - Reading Minor

Program Overview

Program Long Title
Reading Minor

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Minor in Reading (READ)

Students may earn a minor in any program outside of their major by taking 9 credit hours in a single area plus 6 credit hours in any other education prefixes *for a total of 15 credit hours. (e.g. 9 hours of READ plus 6 hours SPED).* (CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, FOED, PSY, READ, SEED, SPED).

Note: Courses that require admission to Teacher Education or that have co-requisite courses with admission restrictions cannot be taken as part of a minor. Please work with your advisor or the College of Education to identify an appropriate pathway to your minor.

SEED-MIN - Secondary Education Minor

Program Overview

Program Long Title
Secondary Education Minor

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Minor in Secondary Education (SEED)

Students may earn a minor in any program outside of their major by taking 9 credit hours in a single area plus 6 credit hours in any other education prefixes *for a total of 15 credit hours. (e.g. 9 hours of SEED plus 6 hours SPED).* (CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, FOED, PSY, READ, SEED, SPED).

Note: Courses that require admission to Teacher Education or that have co-requisite courses with admission restrictions cannot be taken as part of a minor. Please work with your advisor or the College of Education to identify an appropriate pathway to your minor.

SEED-SCBI - Secondary Education, Secondary Education - Science-Biology Concentration, B.S.ED.

Program Overview

Program Long Title
Secondary Education, Secondary Education - Science-Biology Concentration, B.S.ED.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Secondary Education, Science - Biology Concentration, B.S.Ed. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Complete with MATH 1530 or 1710.

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. **American History:** All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Complete with BIOL 1113 and 1123

Secondary Education, Science - Biology Concentration Core

Complete ALL of the following Courses:
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL2010 - Human Anatomy & Physiology I
- BIOL2310 - General Botany
- BIOL3120 - General Ecology
- BIOL3140 - Cellular Biology
- BIOL3810 - General Genetics
- CHEM1110 - General Chemistry I
- CUED4400 - Teaching Methods/Physical Science
- ESLP3200 - Teaching English Learners in Secondary Classrooms
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3820 - Field Exp in Education
- GEOL1040 - Physical Geology
- MATH1530 - Introductory Statistics
- MATH1710 - Pre-Calculus Algebra
- PHYS1090 - Concepts of Physics
- PSY2210 - Educational Psychology
- READ3350 - Teach Reading/Content Areas
- SEED4123 - Mtrls/Meth-Tch the Sciences
- SEED4875 - Application of Learning
- SEED4900 - Residency
- SEED4925 - Application of Teaching
- SPED3000 - Supporting all Learners in Secondary Education

Advisor Guided Electives (2 credits)

Additional Advisor Guided Electives (2 credits) required to achieve 120 hours.

Degree Map

Degree Map Name
Degree Plan - Secondary Education, Science-Biology Concentration, B.S.ED.
Total Degree Map Credits
117 - 120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14 - 17

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 0 - 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- BIOL2310 - General Botany

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PHYS1090 - Concepts of Physics

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- BIOL3140 - Cellular Biology

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select
- CUED4400 - Teaching Methods/Physical Science

Actual Credits 3

Requirement Select
- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- BIOL3120 - General Ecology

Actual Credits 3

Requirement Select
- FOED3820 - Field Exp in Education

Actual Credits 2

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- SEED4123 - Mtrls/Meth-Tch the Sciences

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select
- SPED3000 - Supporting all Learners in Secondary Education

Actual Credits 3

Requirement Select
- SEED4875 - Application of Learning

Actual Credits 3

Requirement Select
- FOED3860 - Field Experiences in Education

Actual Credits 2

Requirement Select
- Advisor Guided Electives (2 credits) (Generic)

Actual Credits 2

Requirement Select
- ESLP3200 - Teaching English Learners in Secondary Classrooms

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- SEED4900 - Residency

Actual Credits 10

Requirement Select
- SEED4925 - Application of Teaching

Actual Credits 2

SEED-SCCH - Secondary Education, Secondary Education - Science-Chemistry Concentration, B.S.ED.

Program Overview

Program Long Title
Secondary Education, Secondary Education - Science-Chemistry Concentration, B.S.ED.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Secondary Education, Science-Chemistry Concentration, B.S.Ed. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Complete with MATH 1710 or MATH 1830

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. **American History:** All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Complete with CHEM 1110 and CHEM 1120.

Secondary Education, Science-Chemistry Concentration Core

Complete ALL of the following Courses:
- ASTR1010 - Intro to Modern Astronomy I
  OR ASTR1020 - Intro to Modern Astronomy II
- BIOL1010 - Introduction to Biology
  OR BIOL1113 - General Biology I
- BIOL1020 - Diversity of Life
  OR BIOL1123 - General Biology II
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CHEM3005 - Elementary Organic Chemistry
  OR CHEM3010 - Organic Chemistry I
- CHEM3410 - Quantitative Analysis
- CHEM3500 - Elements/Physical Chemistry
- CUED4400 - Teaching Methods/Physical Science
- ESLP3200 - Teaching English Learners in Secondary Classrooms
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3820 - Field Exp in Education
- MATH1710 - Pre-Calculus Algebra
- MATH1830 - Applied Calculus
- PHYS2010 - Algebra-based Physics I
- PSY2210 - Educational Psychology
- READ3350 - Teach Reading/Content Areas
- SEED4123 - Mtrls/Meth-Tch the Sciences
- SEED4875 - Application of Learning
- SEED4900 - Residency
- SEED4925 - Application of Teaching
- SPED3000 - Supporting all Learners in Secondary Education

Advisor Guided Electives (3 credits)

Additional Advisor Guided Electives (3 credits) required to achieve 120 hours.

Electives (3 credits)

Additional Electives (3 credits) required to achieve 120 hours.

Degree Map

Degree Map Name

Degree Plan - Secondary Education, Science-Chemistry Concentration, B.S.ED.

Total Degree Map Credits

120

Degree Map Effective Catalog Year

2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- BIOL1010 - Introduction to Biology
  OR
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- BIOL1020 - Diversity of Life
  OR
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1830 - Applied Calculus

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- CHEM3410 - Quantitative Analysis

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Elective (3 cr)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- CHEM3005 - Elementary Organic Chemistry
  OR
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- ASTR1010 - Intro to Modern Astronomy I
  OR
- ASTR1020 - Intro to Modern Astronomy II

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- CUED4400 - Teaching Methods/Physical Science

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I

Actual Credits 4

Requirement Select
- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- CHEM3500 - Elements/Physical Chemistry

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- FOED3820 - Field Exp in Education

Actual Credits 2

Requirement Select
- SEED4123 - Mtrls/Meth-Tch the Sciences

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- SPED3000 - Supporting all Learners in Secondary Education

Actual Credits 3

Requirement Select
- FOED3860 - Field Experiences in Education

Actual Credits 2

Requirement Select
- SEED4875 - Application of Learning

Actual Credits 3

Requirement Select
- Advisor Guided Electives (3 credits) (Generic)

Actual Credits 3

Requirement Select
- ESLP3200 - Teaching English Learners in Secondary Classrooms

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- SEED4900 - Residency

Actual Credits 10

Requirement Select
- SEED4925 - Application of Teaching

Actual Credits 2

SEED-SCPH - Secondary Education, Secondary Education - Science-Physics Concentration, B.S.ED.

Program Overview

Program Long Title

Secondary Education, Secondary Education - Science-Physics Concentration, B.S.ED.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Requirements

Simple Requirements

Secondary Education, Science-Physics Concentration, B.S.Ed. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. **American History:** All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (6hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Complete with CHEM 1110 and PHYS 2110

Secondary Education, Science-Physics Concentration Core

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I
- CUED4400 - Teaching Methods/Physical Science
- ESLP3200 - Teaching English Learners in Secondary Classrooms
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3820 - Field Exp in Education
- GEOL1090 - Concepts of Geology
- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- PHYS1903 - Sp Top/Physics & Physics Ed
  OR PHYSELEC - Physics Elective
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- PHYS3020 - Topics in Modern Physics
- PHYS3060 - PHYS 3060: Mathematical Techniques for Physics
- PHYS3120 - Statistical Thermal Physics
- PHYS3610 - Classical Mechanics
  OR PHYS4903 - Selected Topics in Physics
- PSY2210 - Educational Psychology
- READ3350 - Teach Reading/Content Areas
- SEED4123 - Mtrls/Meth-Tch the Sciences
- SEED4875 - Application of Learning
- SEED4900 - Residency
- SEED4925 - Application of Teaching
- SPED3000 - Supporting all Learners in Secondary Education

Degree Map

Degree Map Name
Degree Plan - Secondary Education, Science-Physics Concentration, B.S.ED.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	14

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- PHYS3020 - Topics in Modern Physics

Actual Credits 3

Requirement Select
- PHYS3060 - PHYS 3060: Mathematical Techniques for Physics

Actual Credits 4

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- CUED4400 - Teaching Methods/Physical Science

Actual Credits 3

Requirement Select
- PHYS3610 - Classical Mechanics

  OR
- PHYS4903 - Selected Topics in Physics

Actual Credits 3

Requirement Select
- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- GEOL1090 - Concepts of Geology

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- FOED3820 - Field Exp in Education

Actual Credits 2

Requirement Select
- PHYS Elective (3 credits) or (Generic)
  OR
- PHYS1903 - Sp Top/Physics & Physics Ed

Actual Credits 3

Requirement Select
- PHYS3120 - Statistical Thermal Physics

Actual Credits 3

Requirement Select
- SEED4123 - Mtrls/Meth-Tch the Sciences

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- SPED3000 - Supporting all Learners in Secondary Education

Actual Credits 3

Requirement Select
- FOED3860 - Field Experiences in Education

Actual Credits 2

Requirement Select
- SEED4875 - Application of Learning

Actual Credits 3

Requirement Select
- ESLP3200 - Teaching English Learners in Secondary Classrooms

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- SEED4900 - Residency

Actual Credits 10

Requirement Select
- SEED4925 - Application of Teaching

Actual Credits 2

SEED-SEEN - Secondary Education, Secondary Education - English Concentration, B.S.ED.

Program Overview

Program Long Title
Secondary Education, Secondary Education - English Concentration, B.S.ED.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Secondary Education, Secondary Education-English Concentration, B.S.Ed. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Humanities & Cultural Expression (3 hours)

Complete ANY of the following Courses:
- ENGL2330 - Topics in World Literature

This concentration completes the literature requirement with ENGL 2330.

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Secondary Education Core

Complete ALL of the following Courses:
- CUED4150 - Middle Level Curriculum
- ESLP3200 - Teaching English Learners in Secondary Classrooms
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3820 - Field Exp in Education
- FOED3890 - FOED 3890: Virtual Practicum for Secondary
- PSY2210 - Educational Psychology
- READ3350 - Teach Reading/Content Areas
- READ4411 - Read/Write Connctn:Secondary
- READ4570 - Young Adult Literature
- SEED4120 - Mtrls/Meth-Tch English
- SEED4875 - Application of Learning
- SEED4900 - Residency
- SEED4925 - Application of Teaching
- SPED3000 - Supporting all Learners in Secondary Education

Secondary Education, Secondary Education-English Concentration Core

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- ENGL2330 - Topics in World Literature
- ENGL4121 - Shakespeare
- ENGL3910 - American Literature I
- ENGL3920 - American Literature II
- ENGL3810 - British Literature I
- ENGL3820 - British Literature II

Secondary Education, Secondary Education-English Concentration Core (6 credits)

English Writing Elective (3 credits) - (3000-4000 level):

Complete 3 credits form ENGL3250, ENGL2400, ENGL4411, ENGL4511, ENGL4521, ENGL4531, ENGL4541, or any Upper Division English Writing course, Linguistics, Grammar, or History of English Language.

and

English Literature Elective (3 Credits) - (3000-4000 level):

Complete 3 credits from ENGL 4751, ENGL4712, ENGL4713, ENGL 4700, or English Literature Upper Division Elective.

Additional Program Requirements

Foreign Language (6 credits):

Complete six (6) credits in a Foreign Language.

Advisor Guided Electives (3 credits)

Advisor Guided Electives (3 credits) required to meet the 120 hours.

Flight Foundations Core - Financial & Digital Literacy (4 hours)

Earn at least 4 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Secondary Education, English Concentration, B.S.ED.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	13

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 6

Requirement Select
- Financial and Digital Literacy (FFDL) (4 cr) (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- ENGL3810 - British Literature I

Actual Credits 3

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Complete three (3) credits in a Foreign Language. (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ENGL3820 - British Literature II

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- Complete three (3) credits in a Foreign Language. (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	18

Requirement Select

- CUED4150 - Middle Level Curriculum

Actual Credits 3

Requirement Select

- ENGL3910 - American Literature I

Actual Credits 3

Requirement Select

- ENGL4121 - Shakespeare

Actual Credits 3

Requirement Select

- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Requirement Select

- READ4411 - Read/Write Connctn:Secondary

Actual Credits 3

Requirement Select

- ENGL4751 - Topics in Non-Western Lit
  OR
- ENGL4712 - African American Literature
  OR
- ENGL4713 - Native American Literature
  OR
- ENGL4700 - Non-Western Literature
  OR
- ENGL Literature Upper Division Elective (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	17

Requirement Select

- ENGL3250 - Professional Comm I
  OR
- ENGL2400 - Intro to Creative Writing
  OR
- ENGL4411 - Writing in the Professions
  OR
- ENGL4511 - Intro/Descriptive Linguistics
  OR
- ENGL4521 - History-English Language
  OR
- ENGL4531 - Grammar and Language
  OR
- ENGL4541 - Topics in Linguistics/Language
  OR
- any Upper Division English Writing course, Linguistics, Grammar, or History of English Language (Generic)

Actual Credits 3

Requirement Select

- ENGL3920 - American Literature II

Actual Credits 3

Requirement Select

- FOED3820 - Field Exp in Education

Actual Credits 2

Requirement Select

- READ4570 - Young Adult Literature

Actual Credits 3

Requirement Select

- SEED4120 - Mtrls/Meth-Tch English

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select

- SPED3000 - Supporting all Learners in Secondary Education

Actual Credits 3

Requirement Select

- Advisor Guided Electives (3 credits) (Generic)

Actual Credits 3

Requirement Select
- FOED3890 - FOED 3890: Virtual Practicum for Secondary

Actual Credits 2

Requirement Select
- SEED4875 - Application of Learning

Actual Credits 3

Requirement Select
- ESLP3200 - Teaching English Learners in Secondary Classrooms

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- SEED4900 - Residency

Actual Credits 10

Requirement Select
- SEED4925 - Application of Teaching

Actual Credits 2

SEED-SEMA - Secondary Education, Secondary Education - Mathematics Concentration, B.S.ED.

Program Overview

Program Long Title
Secondary Education, Secondary Education - Mathematics Concentration, B.S.ED.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Secondary Education, Secondary Education-Mathematics Concentration, B.S.Ed. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (6 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

This concentration meets the general education Math requirement with MATH 1910.

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (4 hours)

Earn at least 4 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (9 hours)

Earn at least 9 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

Secondary Education, Mathematics Concentration Core

Complete ALL of the following Courses:

- CUED3505 - Classroom Design & Management for SEED
- ESLP3100 - ESL Pedagogy: Secondary Education Methodology and Materials
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3820 - Field Exp in Education
- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2010 - Introduction to Linear Algebra
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3070 - Statistical Methods I
- MATH3400 - Intro/Concepts of Math
- MATH3430 - College Geometry
- MATH4210 - Numerical Analysis I
- MATH4610 - History of Mathematics I
  OR MATH4620 - History of Mathematics II
- MATH4650 - Algebra for Sec Math Teaching
- READ3350 - Teach Reading/Content Areas
- SEED4122 - Mtrls/Meth-Tch Math
- SEED4322 - Teaching Algebra in Middle/HS
- SEED4422 - Teach Sec Math Using Techn
- SEED4875 - Application of Learning
- SEED4900 - Residency
- SEED4925 - Application of Teaching
- SPED3000 - Supporting all Learners in Secondary Education

Advisor Guided Electives (4 credits)

Additional Advisor Guided Electives (4 credits) needed to complete the 120 hours.

Flight Foundations Core - Communication - Oral Communication (3 hours)

Earn at least 3 credits from the following:

- Communication (GEDC) - Oral Communication

Degree Map

Degree Map Name
Degree Plan - Secondary Education, Mathematics Concentration, B.S.ED.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select

- MATH1910 - Calculus I

Actual Credits 4

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- MATH1920 - Calculus II

Actual Credits 4

Requirement Select

- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 4

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- CUED3505 - Classroom Design & Management for SEED

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- ESLP3100 - ESL Pedagogy: Secondary Education Methodology and Materials

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- MATH3400 - Intro/Concepts of Math

Actual Credits 3

Requirement Select
- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Requirement Select
- SEED4322 - Teaching Algebra in Middle/HS

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- FOED3820 - Field Exp in Education

Actual Credits 2

Requirement Select
- MATH3430 - College Geometry

Actual Credits 3

Requirement Select
- MATH4610 - History of Mathematics I

  OR
- MATH4620 - History of Mathematics II

Actual Credits 3

Requirement Select
- SEED4122 - Mtrls/Meth-Tch Math

Actual Credits 3

Requirement Select
- MATH4650 - Algebra for Sec Math Teaching

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- SEED4422 - Teach Sec Math Using Techn

Actual Credits 3

Requirement Select
- SPED3000 - Supporting all Learners in Secondary Education

Actual Credits 3

Requirement Select
- MATH4210 - Numerical Analysis I

Actual Credits 3

Requirement Select
- SEED4875 - Application of Learning

Actual Credits 3

Requirement Select
- Advisor Guided Electives (4 credits) (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- SEED4900 - Residency

Actual Credits 10

Requirement Select
- SEED4925 - Application of Teaching

Actual Credits 2

SEED-SENL - Secondary Education, Secondary Education - Non-Licensure Concentration, B.S.ED.

Program Overview

Program Long Title
Secondary Education, Secondary Education - Non-Licensure Concentration, B.S.ED.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Secondary Education, Secondary Education-Non-Licensure Concentration, B.S.Ed. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (4 hours)

Earn at least 4 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (9 hours)

Earn at least 9 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

Secondary Education Core

Complete ALL of the following Courses:

- ESLP3200 - Teaching English Learners in Secondary Classrooms
- FOED3010 - Integrating Instructional Technology into the Classroom
- READ3350 - Teach Reading/Content Areas
- SEED4120 - Mtrls/Meth-Tch English
  OR SEED4122 - Mtrls/Meth-Tch Math
  OR SEED4123 - Mtrls/Meth-Tch the Sciences
  OR SEED4124 - Mtrls/Meth-Tch Soc Studies
- SPED3000 - Supporting all Learners in Secondary Education

Secondary Education, Secondary Education-Non-Licensure Concentration Core

Content Electives (42 credits):

Content Electives - 27 credits (any level)

Content Electives (Upper Division) - 15 credits at the 3000-4000 level.

Content Electives (42 credits)

Additional Program Requirements

Upper Division Electives (9 hours) at the 3000-4000 level.

AND

Electives (10 hours)

Additional Comments:
Overall, the program must include at least 36 hours of Upper Division (3000-4000-level) coursework.

Degree Map

Degree Map Name
Degree Plan - Secondary Education, Non-Licensure Concentration, B.S.ED.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Year 1	Fall	16

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select

- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Year	Semester	Actual Credits
Year 1	Spring	16

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- Financial & Digital Literacy (4 cr) (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Year 2	Fall	15

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select

- ESLP3200 - Teaching English Learners in Secondary Classrooms

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Spring	12

Requirement Select
- Content Electives (12 credits)
  (Generic)

Actual Credits 12

Year	Semester	Actual Credits
Year 3	Fall	15

Requirement Select
- Content Electives (12 credits)
  (Generic)

Actual Credits 12

Requirement Select
- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Year	Semester	Actual Credits
Year 3	Spring	14

Requirement Select
- Content Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Electives (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select
- SEED4120 - Mtrls/Meth-Tch English
  OR
- SEED4122 - Mtrls/Meth-Tch Math
  OR
- SEED4123 - Mtrls/Meth-Tch the Sciences
  OR
- SEED4124 - Mtrls/Meth-Tch Soc Studies

Actual Credits 3

Requirement Select
- Upper Division Electives (4 cr.)
  (Generic)

Actual Credits 4

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Year	Semester	Actual Credits
Year 4	Fall	17

Requirement Select
- Electives (9 cr.)
  (Generic)

Actual Credits 9

Requirement Select
- Upper Division Electives (5 cr.)
  (Generic)

Actual Credits 5

Requirement Select
- SPED3000 - Supporting all Learners in Secondary Education

Actual Credits 3

Year	Semester	Actual Credits
Year 4	Spring	15

Requirement Select
- Upper Division (3000-4000 level) Content Electives (15 credits)
  (Generic)

Actual Credits 15

Requirement Select
- Overall, the program must include at least 36 hours of Upper Division courework.
  (Generic)

Actual Credits -

SEED-SESP - Secondary Education, Secondary Education - Spanish Concentration, B.S.ED.

Program Overview

Program Long Title
Secondary Education, Secondary Education - Spanish Concentration, B.S.ED.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Secondary Education, Secondary Education-Spanish Concentration, B.S.Ed. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Humanities & Cultural Expression - Literature Requirement (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

ART 1035 or MUS 1030 meets 3 of the six required credits.

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Secondary Education Core

Complete ALL of the following Courses:
- PSY2210 - Educational Psychology
- ESLP3200 - Teaching English Learners in Secondary Classrooms
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3800 - Field Exp in Edu
- SEED4125 - Mtrls/Meth-Tch Foreign Lang
- SEED4875 - Application of Learning
- SEED4900 - Residency
- SEED4925 - Application of Teaching

Secondary Education, Secondary Education-Spanish Concentration Core

Complete ALL of the following Courses:
- SPAN2010 - Intermediate Spanish 1
- SPAN2020 - Intermediate Spanish 2
- SPAN3010 - Written Communication/Spanish
- SPAN3020 - Oral Communication In Spanish
- SPAN4810 - Special Topics in Spanish
- SPAN4110 - Culture/Civilization of Spain
  OR SPAN4120 - Culture/Civ of Spanish Amer
- SPAN4010 - Intro to Literature of Spain
  OR SPAN4020 - Intro/Lit of Spanish America
- SPAN4010 - Intro to Literature of Spain
  OR SPAN4020 - Intro/Lit of Spanish America
  OR SPAN4110 - Culture/Civilization of Spain
  OR SPAN4120 - Culture/Civ of Spanish Amer
- SPAN4925 - Teaching Licensure Sr Capstone

Choose three hours from one of the following that has not already been taken: SPAN 4010, 4020, 4110, or 4120.

Secondary Education, Secondary Education-Spanish Concentration Core

Spanish Upper Division Electives (3 hours):

Take three hours of SPAN at the 3000-4000 level.

Additional Program Requirements

Upper Division HIST (6 credits) or any Upper Division SPAN:

History

Six credits in HIST 3710 or HIST 4790-4799 or any approved upper division HIST or any approved upper division SPAN

Additional Program Requirements

Complete ALL of the following Courses:

- ART1035 - Introduction to Art
  OR MUS1030 - Music Appreciation
- SPED3000 - Supporting all Learners in Secondary Education
- READ3350 - Teach Reading/Content Areas
- ELECTIVE - Elective Credit

Additional free electives (2 credits) and Advisor Guided Electives (5 credits) are required to complete 120 earned hours.

Flight Foundations Core - Financial & Digital Literacy (4 hours)

Earn at least 4 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Secondary Education, Spanish Concentration, B.S.ED.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select

- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select

- SPAN2010 - Intermediate Spanish 1

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select

- ART1035 - Introduction to Art
  OR
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- Financial and Digital Literacy (FFDL) (4 cr) (Generic)

Actual Credits 4

Requirement Select

- SPAN2020 - Intermediate Spanish 2

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	18

Requirement Select

- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select

- ESLP3200 - Teaching English Learners in Secondary Classrooms

Actual Credits 3

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- SPAN3010 - Written Communication/Spanish

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- SPAN3020 - Oral Communication In Spanish

Actual Credits 3

Requirement Select
- SPAN4010 - Intro to Literature of Spain
  OR
- SPAN4020 - Intro/Lit of Spanish America

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	14

Requirement Select
- Elective (2 cr.)
  (Generic)

Actual Credits 2

Requirement Select
- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Requirement Select
- SPAN4110 - Culture/Civilization of Spain
  OR
- SPAN4120 - Culture/Civ of Spanish Amer

Actual Credits 3

Requirement Select
- SPAN Upper Division Course: Credit 3.
  (Generic)

Actual Credits 3

Requirement Select
- HIST3710 - Survey of Spanish History
  OR
- HIST4790-4799
  (Generic)
  OR
- any Approved Upper Division HIST
  (Generic)
  OR
- any Approved Upper Division SPAN
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- FOED3800 - Field Exp in Edu

Actual Credits 1

Requirement Select
- SEED4125 - Mtrls/Meth-Tch Foreign Lang

Actual Credits 3

Requirement Select
- SPAN4810 - Special Topics in Spanish

Actual Credits 3

Requirement Select
- HIST3710 - Survey of Spanish History
  OR
- HIST4790-4799
  (Generic)
  OR
- any Approved Upper Division HIST
  (Generic)
  OR
- any Approved Upper Division SPAN
  (Generic)

Actual Credits 3

Requirement Select
- Choose three hours from one of the following that has not already been taken:
  (Generic)

Actual Credits -

Requirement Select
- SPAN4010 - Intro to Literature of Spain
  OR
- SPAN4020 - Intro/Lit of Spanish America
  OR
- SPAN4110 - Culture/Civilization of Spain
  OR
- SPAN4120 - Culture/Civ of Spanish Amer

Actual Credits 3

Requirement Select

- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select

- SPED3000 - Supporting all Learners in Secondary Education

Actual Credits 3

Requirement Select

- SPAN4925 - Teaching Licensure Sr Capstone

Actual Credits 2

Requirement Select

- SEED4875 - Application of Learning

Actual Credits 3

Requirement Select

- Advisor Guided Electives (5 credits) (Generic)

Actual Credits 5

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select

- SEED4900 - Residency

Actual Credits 10

Requirement Select

- SEED4925 - Application of Teaching

Actual Credits 2

SEED-SEST - Secondary Education, Secondary Education -Speech Communication - Theatre Concentration, B.S.ED.

Program Overview

Program Long Title

Secondary Education, Secondary Education -Speech Communication - Theatre Concentration, B.S.ED.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Requirements

Simple Requirements

Secondary Education, Secondary Education-Speech Communication Theatre Concentration, B.S.Ed. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

This concentration can meet the Quantitative Reasoning & Analysis requirement with MATH 1010.

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Humanities & Cultural Expression - Literature

Requirement (3 hours)

Complete ANY of the following Courses:

- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

This concentration meets the literature requirement with ENGL 2330.

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

This concentration meets this requirement with a choice of ART 1035 or MUS 1030 and THEA 1030.

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundations Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

Secondary Education Core

Complete ALL of the following Courses:

- ESLP3200 - Teaching English Learners in Secondary Classrooms
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3820 - Field Exp in Education
- PSY2210 - Educational Psychology
- READ3350 - Teach Reading/Content Areas
- CUED4120 - Materials/Methods: Speech and Theatre
  OR SEED4120 - Mtrls/Meth-Tch English
- SPED3000 - Supporting all Learners in Secondary Education
- SEED4875 - Application of Learning
- SEED4900 - Residency
- SEED4925 - Application of Teaching

Secondary Education, Secondary Education-Speech Communication & Theatre Concentration Core

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- ENGL4121 - Shakespeare
- ENGL2330 - Topics in World Literature
- ENGL3910 - American Literature I
  OR ENGL3920 - American Literature II
- COMM2025 - Fundamentals of Communication
- COMM3130 - Speech Activities
- COMM3630 - Discuss & Parliament Procedure
- COMM4430 - Adv Interpersonal Comm
- THEA1030 - Intro to Theater
- THEA2015 - Acting II
- THEA2110 - Play Production
- THEA2025 - Stagecraft II
- THEA4300 - Play Directing
- THEA4500 - Creative Dramatics

Secondary Education, Secondary Education-Speech Communication & Theatre Concentration Core

Theatre Elective (3 Credits)

Complete 3 credits in THEA (any level)

Additional Program Requirements

Foreign Language (6 credits):

Complete six (6) credits in a Foreign Language.

Additional Program Requirements

Complete ALL of the following Courses:

- ART1035 - Introduction to Art
  OR MUS1030 - Music Appreciation

Advisor Guided Electives (4 credits)

Advisor Guided Electives (4 credits) must be completed to achieve 120 hours.

Flight Foundations Core - Financial & Digital Literacy (4 hours)

Earn at least 4 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Secondary Education, Speech Communication & Theatre Concentration, B.S.ED.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select

- Financial and Digital Literacy (FFDL) (4 cr)
  (Generic)

Actual Credits 4

Requirement Select

- MATH1010 - Math for General Studies
  OR
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select

- Foreign Language (cr 3)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ART1035 - Introduction to Art
  OR
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- THEA1030 - Intro to Theater

Actual Credits 3

Requirement Select
- Foreign Language (cr 3)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	13

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- THEA2015 - Acting II

Actual Credits 3

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- COMM2025 - Fundamentals of Communication

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- THEA Elective
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	18

Requirement Select
- COMM3130 - Speech Activities

Actual Credits 3

Requirement Select
- COMM3630 - Discuss & Parliament Procedure

Actual Credits 3

Requirement Select
- COMM4430 - Adv Interpersonal Comm

Actual Credits 3

Requirement Select
- ENGL4121 - Shakespeare

Actual Credits 3

Requirement Select
- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	17

Requirement Select

- CUED4120 - Materials/Methods: Speech and Theatre
  OR
- SEED4120 - Mtrls/Meth-Tch English

Actual Credits 3

Requirement Select

- ENGL3910 - American Literature I
  OR
- ENGL3920 - American Literature II

Actual Credits 3

Requirement Select

- FOED3820 - Field Exp in Education

Actual Credits 2

Requirement Select

- THEA2025 - Stagecraft II

Actual Credits 3

Requirement Select

- THEA4300 - Play Directing

Actual Credits 3

Requirement Select

- THEA4500 - Creative Dramatics

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select

- SPED3000 - Supporting all Learners in Secondary Education

Actual Credits 3

Requirement Select

- SEED4875 - Application of Learning

Actual Credits 3

Requirement Select

- Advisor Guided Electives (4 credits)
  (Generic)

Actual Credits 4

Requirement Select

- ESLP 3200-Teaching English Learners/SEED Classrm (cr 3)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select

- SEED4900 - Residency

Actual Credits 10

Requirement Select

- SEED4925 - Application of Teaching

Actual Credits 2

SEED-SSHI - Secondary Education, Social Studies - History Concentration, B.S.ED.

Program Overview

Program Long Title
Secondary Education, Social Studies - History Concentration, B.S.ED.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Secondary Education, Social Studies-History Concentration (120 hrs.)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Humanities & Cultural Expression - Literature Requirement (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

HIST 2210, 2220, 2310, or 2320 complete three (3) of the six (6) hours required.

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Six (6) hours are complete with GEOG 1012, POLS 1030, or PSY1030.

Flight Foundations Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Secondary Education, Social Science-History Concentration

Complete ALL of the following Courses:
- ESLP3200 - Teaching English Learners in Secondary Classrooms
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3820 - Field Exp in Education
- GEOG1012 - Cultural Geography
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- HIST2210 - Early Western Civilization
- HIST2220 - Modern Western Civilization
- HIST2310 - Early World History
- HIST2320 - Modern World History
- HIST3100 - Tennessee Topics
- POLS1030 - American Government
- PSY1030 - Introduction to Psychology
- PSY2210 - Educational Psychology
- READ3350 - Teach Reading/Content Areas
- SEED4124 - Mtrls/Meth-Tch Soc Studies
- SEED4875 - Application of Learning
- SEED4900 - Residency
- SEED4925 - Application of Teaching
- SPED3000 - Supporting all Learners in Secondary Education

Additional Requirements
- Two (2) classes in HIST 4710, 4730, 4740, 4750, or 4790-4799
- Nine (9) credits in Upper Division History (HIST 3000-4000 level)
- Six (6) credits in GEOG or POLS (any level)
- Five (5) credits of Advisor Guided Electives

Flight Foundations Core - Financial & Digital Literacy

Earn at least 4 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Secondary Education, History Concentration, B.S.ED.

Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Financial & Digital Literacy (4 credits) (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- POLS1030 - American Government

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- GEOG1012 - Cultural Geography

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- HIST2210 - Early Western Civilization

Actual Credits 3

Requirement Select
- HIST2320 - Modern World History

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- HIST2220 - Modern Western Civilization

Actual Credits 3

Requirement Select
- HIST2310 - Early World History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Electives from POLS or GEOG (3 credits) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	18

Requirement Select
- HIST3100 - Tennessee Topics

Actual Credits 3

Requirement Select
- History Upper Division Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Requirement Select
- HIST4710 - History of Africa
  OR
- HIST4730 - The Modern Middle East
  OR
- HIST4740 - History of Japan
  OR
- HIST4750 - History of China
  OR
- HIST 4790-4977 - Latin American Studies (Generic)

Actual Credits 3

Requirement Select
- HIST4710 - History of Africa
  OR
- HIST4730 - The Modern Middle East
  OR
- HIST4740 - History of Japan
  OR
- HIST4750 - History of China
  OR
- HIST4790-4799 (Generic)

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- FOED3820 - Field Exp in Education

Actual Credits 2

Requirement Select
- HIST Upper Division Electives (6 cr) (Generic)

Actual Credits 6

Requirement Select
- Electives from POLS or GEOG (3 cr) (Generic)

Actual Credits 3

Requirement Select
- SEED4124 - Mtrls/Meth-Tch Soc Studies

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- SPED3000 - Supporting all Learners in Secondary Education

Actual Credits 3

Requirement Select
- SEED4875 - Application of Learning

Actual Credits 3

Requirement Select
- Advisor Guided Electives (5 credits) (Generic)

Actual Credits 5

Requirement Select
- ESLP3200 - Teaching English Learners in Secondary Classrooms

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- SEED4900 - Residency

Actual Credits 10

Requirement Select
- SEED4925 - Application of Teaching

Actual Credits 2

SERV-CER - Students Engaging, Responding Certificate

Program Overview

Program Long Title
Students Engaging, Responding Certificate

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Students Engaging, Responding, Volunteering & Impacting Communities Everywhere (SERVICE) Certificate

Type
Completion Requirement

SERVICE (SERV) Certificate

Open to All Majors:

- CUED 4750 (5750) - Service Learning Informal STEM Education. Credit: 0-3.
- CUED 4850 (5850) - Workshop in Education Credit: 1-6.
- CUED 4900 (5900) - Study Abroad Credit: 1-6.
- LIST 2091 - Service Learning Credit: 1.
- LIST 2093 - Service Learning Credit: 3.
- LIST 3030 - Service Learning Credit: 3.

Open to Education Majors:

- ECED 3310 - Practicum: Concepts for Young Children Credit: 1.
- FOED 3810 - Field Experiences in Education Credit: 1-2.
- SEED 4322 (5322) - Teaching Algebra in Middle/High School Credit: 3.
- SPED 3031 - Physical Management and Support Services for Orthopedic, Motor and Health Impaired Credit: 3.
- SPED 3020 - Characteristics and Needs of Persons with Comprehensive Disabilities Credit: 3.
- SPED 4200 (5200) - Teaching Students with Autism Spectrum Disorders Credit: 3

SPE-CINT - Special Education, Comprehensive Interventionist Concentration, B.S.

Program Overview

Program Long Title
Special Education, Comprehensive Interventionist Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Special Education, Comprehensive/Interventionist Concentration (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

This concentration meets the general education Math requirement with MATH 1420.

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

GEOG 1012 completes three (3) of the six (6) required hours.

Flight Foundations Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Special Education, Comprehensive/Interventionist Concentration Core

Complete ALL of the following Courses:

- SPED2010 - Intro to Special Education
- SPED3015 - Applying University Learning Principles
- SPED3020 - Charact of Persons Compre/Disa
- SPED3030 - Specific Learning Disabilities
- SPED3031 - Phys Mgmt/Support Serv-Impr
- SPED4030 - App Behav Analy for Teachers
- SPED4155 - Collaborative Practices
- SPED4200 - Tchng Stu-Autism Spec Disordr
- SPED4400 - Individualized Stu Planning
- SPED4500 - Communication Disorders
- SPED4900 - Residency
- SPED4925 - Application of Teaching

Additional Program Requirements

Complete ALL of the following Courses:

- ELED3155 - Foundational Mathematics Mthds
- ELED3152 - Teaching of Mathematics
- ELED4142 - Teaching of Science
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3810 - Field Exp in Edu
- FOED3855 - Field Experiences in SPED
- GEOG1012 - Cultural Geography
- MATH1410 - Number Concepts for Teachers
- MATH1420 - Elementary Geometry Concepts
- PSY2210 - Educational Psychology
- READ3335 - Literacy/Exceptional Learners
- CUED3500 - Classroom Design & Management for ELED **OR** CUED3505 - Classroom Design & Management for SEED

Degree Map

Degree Map Name
Degree Plan - Special Education, Comprehensive/Interventionist Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH1410 - Number Concepts for Teachers

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- GEOG1012 - Cultural Geography

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1420 - Elementary Geometry Concepts

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- SPED2010 - Intro to Special Education

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- SPED3015 - Applying University Learning Principles

Actual Credits 2

Requirement Select
- CUED3500 - Classroom Design & Management for ELED
  OR
- CUED3505 - Classroom Design & Management for SEED

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	17

Requirement Select
- FOED3810 - Field Exp in Edu

Actual Credits 2

Requirement Select
- SPED3031 - Phys Mgmt/Support Serv-Impr

Actual Credits 3

Requirement Select
- SPED4200 - Tchng Stu-Autism Spec Disordr

Actual Credits 3

Requirement Select
- ELED3155 - Foundational Mathematics Mthds

Actual Credits 3

Requirement Select
- READ3320 - Literacy Methods

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	Second Semester	17

Requirement Select
- ELED3152 - Teaching of Mathematics

Actual Credits 3

Requirement Select
- ELED4142 - Teaching of Science

Actual Credits 3

Requirement Select
- READ3335 - Literacy/Exceptional Learners

Actual Credits 3

Requirement Select
- FOED3850 - Field Experience in SPED

Actual Credits 2

Requirement Select
- SPED3020 - Charact of Persons Compre/Disa

Actual Credits 3

Requirement Select
- SPED4030 - App Behav Analy for Teachers

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select
- FOED3855 - Field Experiences in SPED

Actual Credits 2

Requirement Select
- SPED3030 - Specific Learning Disabilities

Actual Credits 3

Requirement Select
- SPED4400 - Individualized Stu Planning

Actual Credits 3

Requirement Select
- SPED4155 - Collaborative Practices

Actual Credits 2

Requirement Select
- SPED4500-Communication Disorders (3 cr) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- SPED4900 - Residency

Actual Credits 10

Requirement Select
- SPED4925 - Application of Teaching

Actual Credits 2

SPE-SISE - Special Education, Special Education Interventionist for Secondary Education Concentration, B.S.

Program Overview

Program Long Title
Special Education, Special Education Interventionist for Secondary Education Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Special Education, Interventionist for Secondary Education Concentration, B.S. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

This concentration meets the general education Math requirement with MATH 1420.

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

GEOG 1012 meets three (3) of the six (6) required hours.

Flight Foundations Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Special Education, Interventionist for Secondary Education Concentration Core

Complete ALL of the following Courses:

- SPED2010 - Intro to Special Education
- SPED3015 - Applying University Learning Principles
- SPED3030 - Specific Learning Disabilities
- SPED4030 - App Behav Analy for Teachers
- SPED4100 - Collaboration/Incl Practice
- SPED4155 - Collaborative Practices
- SPED4200 - Tchng Stu-Autism Spec Disordr
- SPED4400 - Individualized Stu Planning
- SPED4900 - Residency
- SPED4925 - Application of Teaching

Additional Program Requirements

Complete ALL of the following Courses:

- PSY2210 - Educational Psychology
- FOED3010 - Integrating Instructional Technology into the Classroom
- FOED3855 - Field Experiences in SPED
- READ3314 - Literacy for Middle School
- READ3350 - Teach Reading/Content Areas
- MATH1410 - Number Concepts for Teachers
- MATH1420 - Elementary Geometry Concepts
- CUED3505 - Classroom Design & Management for SEED
- GEOG1012 - Cultural Geography

Advisor Approved Electives (22 credits)

Advisor Guided Electives (22 credits) needed to complete 120 hours.

Degree Map

Degree Map Name
Degree Plan - Special Education, Interventionist for Secondary Education Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- MATH1410 - Number Concepts for Teachers

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- GEOG1012 - Cultural Geography

Actual Credits 3

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- MATH1420 - Elementary Geometry Concepts

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- SPED2010 - Intro to Special Education

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- Advisor Guided Electives (Generic)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- SPED3015 - Applying University Learning Principles

Actual Credits 2

Requirement Select
- CUED3505 - Classroom Design & Management for SEED

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- Advisor Guided Electives (Generic)

Actual Credits 7

Requirement Select
- READ3314 - Literacy for Middle School

Actual Credits 3

Requirement Select
- READ3350 - Teach Reading/Content Areas

Actual Credits 3

Requirement Select
- SPED4200 - Tchng Stu-Autism Spec Disordr

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Advisor Guided Electives (9 cr) (Generic)

Actual Credits 9

Requirement Select
- SPED4100 - Collaboration/Incl Practice

Actual Credits 3

Requirement Select
- SPED4030 - App Behav Analy for Teachers

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select
- FOED3855 - Field Experiences in SPED

Actual Credits 2

Requirement Select
- SPED3030 - Specific Learning Disabilities

Actual Credits 3

Requirement Select
- SPED4400 - Individualized Stu Planning

Actual Credits 3

Requirement Select
- Advisor Guided Electives (3 cr) (Generic)

Actual Credits 3

Requirement Select
- SPED4155 - Collaborative Practices

Actual Credits 2

Year	Semester	Actual Credits

Senior Year	Second Semester	12

Requirement Select
- SPED4900 - Residency

Actual Credits 10

Requirement Select
- SPED4925 - Application of Teaching

Actual Credits 2

SPE-SPPR - Special Education, Special Education Practitioner Concentration, B.S.

Program Overview

Program Long Title
Special Education, Special Education Practitioner Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Special Education, Special Education Practitioner Concentration, B.S. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

This concentration meets the general education Math requirement with MATH 1420.

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Core - Humanities & Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundations Core - Social & Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

GEOG 1012 completes three (3) of the six (6) required hours.

Flight Foundations Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

A minimum of eight credit (8) hours is required.

Special Education, Special Education Practitioner Concentration Core

Complete ALL of the following Courses:

- SPED2010 - Intro to Special Education
- SPED3031 - Phys Mgmt/Support Serv-Impr
- SPED4030 - App Behav Analy for Teachers
- SPED4200 - Tchng Stu-Autism Spec Disordr
- SPED4170 - Community Res/Practicum I
- SPED4120 - Topics in Behavior
- SPED4180 - Community Res/Praticum II
- SPED3020 - Charact of Persons Compre/Disa

Additional Program Requirements

Complete ALL of the following Courses:

- PSY2210 - Educational Psychology
- FOED3010 - Integrating Instructional Technology into the Classroom
- MATH1410 - Number Concepts for Teachers
- MATH1420 - Elementary Geometry Concepts
- GEOG1012 - Cultural Geography
- EXPW2430 - First Aid, Safety & CPR
- LIST4050 - American Sign Language I
- LIST4090 - American Sign Language II
- EXPW4520 - Adapted Phys Activity-Sport

Advisor Guided Elective Credits (22 credits)

Degree Map

Degree Map Name
Degree Plan - Special Education, Special Ed Practitioner Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Year 1	Fall	16

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- MATH1410 - Number Concepts for Teachers

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Year 1	Spring	16

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- GEOG1012 - Cultural Geography

Actual Credits 3

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select

- MATH1420 - Elementary Geometry Concepts

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Year 2	Fall	15

Requirement Select

- Advisor Guided Electives (6 cr) (Generic)

Actual Credits 6

Requirement Select

- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- SPED2010 - Intro to Special Education

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Spring	15

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits
Year 3	Fall	17

Requirement Select
- Advisor Guided Electives (6 cr) (Generic)

Actual Credits 6

Requirement Select
- EXPW2430 - First Aid, Safety & CPR

Actual Credits 2

Requirement Select
- LIST4050 - American Sign Language I

Actual Credits 3

Requirement Select
- SPED3031 - Phys Mgmt/Support Serv-Impr

Actual Credits 3

Requirement Select
- SPED4200 - Tchng Stu-Autism Spec Disordr

Actual Credits 3

Year	Semester	Actual Credits
Year 3	Spring	17

Requirement Select
- Advisor Guided Electives (5 cr) (Generic)

Actual Credits 5

Requirement Select
- EXPW4520 - Adapted Phys Activity-Sport

Actual Credits 3

Requirement Select
- LIST4090 - American Sign Language II

Actual Credits 3

Requirement Select
- SPED3020 - Charact of Persons Compre/Disa

Actual Credits 3

Requirement Select
- SPED4030 - App Behav Analy for Teachers

Actual Credits 3

Year	Semester	Actual Credits
Year 4	Fall	12

Requirement Select
- Advisor Guided Electives (5 cr.) (Generic)

Actual Credits 5

Requirement Select
- SPED4170 - Community Res/Practicum I

Actual Credits 7

Year	Semester	Actual Credits
Year 4	Spring	12

Requirement Select
- SPED4120 - Topics in Behavior

Actual Credits 3

Requirement Select
- SPED4180 - Community Res/Praticum II

Actual Credits 9

SPED-MIN - Special Education Minor

Program Overview

Program Long Title
Special Education Minor

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Requirements

Simple Requirements

Minor in Special Education (SPED)

Students may earn a minor in any program outside of their major by taking 9 credit hours in a single area plus 6 credit hours in any other education prefixes *for a total of 15 credit hours. (e.g. 9 hours of SPED plus 6 hours CSED). (*CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, FOED, PSY, READ, SEED, SPED).

Note: Courses that require admission to Teacher Education or that have co-requisite courses with admission restrictions cannot be taken as part of a minor. Please work with your advisor or the College of Education to identify an appropriate pathway to your minor.

Courses

Course Information

Course Title
Digital Literacy & Computing

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSED

Course Number
3000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course teaches students the ability to identify, find, evaluate and use computer science technologies for teaching and learning. This course will consist of modules related to hardware and operating systems, data abstraction, cyber security and internet privacy, digital literacy, information literacy, and digital artifact design. Concurrently, K-12 teaching methodologies related to these topics will be explored and discussed.

College/School
Education and Human Sciences

Prgmg Fundmtls & Cmpt Thinking for Educ

Course Information

Course Title
Prgmg Fundmtls/Cmpt Thk-Edu

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSED

Course Number
3010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3820. This course introduces the foundational building blocks of programming, including primitive data types, functions, algorithms, flow charts, common searching, basic data structures, and control structures. Computational thinking concepts will be defined and examined within programming languages. A grade of B or better is required to meet requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: Full admission to the Teacher Education Program.

Corequisite:
Corequisite: FOED 3820.

Course Information

Course Title
Comp Sci Concepts/Teachers

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSED

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. This course covers the writing, modifying, and analyzing of text-based programming for teachers. Analysis of correctness, extensibility, modifiability and reusability of code will be completed. The three major programming structures (sequence, conditionals, and iteration) will be investigated and practiced. Low vs. high level programming languages will be explored. A grade of B or better is required to meet requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Comp Sci Instructional Methods

Academic Level (Course Level)
Undergraduate

Course Subject Code
CSED

Course Number
3030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. This course offers an examination and application of curricular issues, learning theories, pedagogical methods, and assessments for teaching K-12 computer science in multicultural and diverse classrooms. Comprehensive K-8 or 9-12 computer science lesson plans will be collaboratively developed. The fundamental intersections between computer science and other K-12 disciplines for the purpose of teaching will be investigated. A grade of B or better is required to meet requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Shop/Lab/Class Org/CTE

Academic Level (Course Level)
Undergraduate

Course Subject Code
CTE

Course Number
3230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Orientation to the safe and efficient management of classroom, shop and lab facilities

College/School
Education and Human Sciences

Course Information

Course Title
Curr/Pgm Dvlpmt/Career Tech Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
CTE

Course Number
4030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A study of the fundamental steps involved in the development of curriculum in industrial education.

College/School
Education and Human Sciences

Course Information

Course Title
Career Tech Stu Org/Tch Sprvsn

Academic Level (Course Level)
Undergraduate

Course Subject Code
CTE

Course Number
4080

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The methods of establishment, supervision, and evaluation of vocational youth organizations in industrial education.

College/School
Education and Human Sciences

Course Information

Course Title
Career Tech Ed/Stu w/ Sp Needs

Academic Level (Course Level)
Undergraduate

Course Subject Code
CTE

Course Number
4090

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Overview of the nature of special needs students, technique of modification of vocational curriculum, and development of appropriate teaching materials.

College/School
Education and Human Sciences

Course Information

Course Title
Use of Tech in Career Tech Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
CTE

Course Number
4850

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Laboratory approach providing opportunities for experienced educational personnel to concentrate their study in depth.

College/School
Education and Human Sciences

Classroom Design & Management for ELED

Course Information

Course Title
Clsrm Design & Mangmt for ELED

Academic Level (Course Level)
Undergraduate

Course Subject Code
CUED

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Examine approaches to planning and delivering instruction that support full participation and learning for all students in the elementary classroom. Topics include flexible lesson design, supports for behavior and engagement, strategies for addressing varied learning needs, and practices for working effectively with students who have experienced significant stress.

College/School
Education and Human Sciences

Classroom Design & Management for SEED

Course Information

Course Title
Clsrm Design & Mangmt for SEED

Academic Level (Course Level)
Undergraduate

Course Subject Code
CUED

Course Number
3505

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Examine approaches to planning and delivering instruction that support full participation and learning for all students in the secondary classroom. Topics include flexible lesson design, supports for behavior and engagement, strategies for addressing varied learning needs, and practices for working effectively with students who have experienced significant stress.

College/School
Education and Human Sciences

Materials/Methods: Speech and Theatre

Course Information

Course Title
Mat & Meth-Speech & Thea

Academic Level (Course Level)
Undergraduate

Course Subject Code
CUED

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3820. Principles, objectives, techniques, evaluation in secondary school teaching of speech and elementary and secondary school teaching of theatre.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
FOED 3820.

Course Information

Course Title
Middle Level Curriculum

Academic Level (Course Level)
Undergraduate

Course Subject Code
CUED

Course Number
4150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. An examination of the philosophy, organization, and curriculum of middle level education, including career awareness and exploration, interdisciplinary team teaching, principles of classroom management, and family involvement in the schools. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Teaching Methods/Physical Science

Course Information

Course Title
Teaching Methods/Phys Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
CUED

Course Number
4400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course focuses on teaching methods associated with the physical sciences of physics and chemistry. Students will experience and learn the theories behind inquiry, modeling, and other appropriate classroom instructional methods for physics and chemistry topics. Methods and topics will cover grades K-12 with a strong emphasis on conceptual understanding and vertically-alligned standards-based instruction.

College/School
Education and Human Sciences

Capstone Field Placement & Seminar

Course Information

Course Title
Capstone Field Plmt & Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
CUED

Course Number
4600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program. Supervised work experiences in public schools stressing the translation of theory and strategies into practice. A minimum grade of B is required to meet degree requirements for licensure candidates. Field experience embedded into course.

College/School
EH

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Data, Assessment, & Evaluation

Academic Level (Course Level)
Undergraduate

Course Subject Code
CUED

Course Number
4725

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prepares teacher candidates to interpret data and apply effective assessment and evaluation in the PreK-12 classroom.

College/School
Education and Human Sciences

Service Learning: Informal STEM Education

Course Information

Course Title
Serv Lrn Informal STEM Edu

Academic Level (Course Level)
Undergraduate

Course Subject Code
CUED

Course Number
4750

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Course Description
This course provides students with the opportunity to plan, prepare, and present informal activities/lessons in science, technology, engineering, and mathematics to PreK-12th graders. Students in the 5000-level course will complete additional work. May be repeated for credit.

College/School
Education and Human Sciences

Course Information

Course Title
Job-Embedded Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
CUED

Course Number
4780

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Develop an understanding of state standards & curriculum, identify effective instructional strategies, and implement appropriate assessment methods to support and meet the needs of all learners. State specific licensure requirements for Job-Embedded educators will be addressed.

College/School
Education and Human Sciences

Course Information

Course Title
Student Engagement

Academic Level (Course Level)
Undergraduate

Course Subject Code
CUED

Course Number
4800

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Designed to develop engaging strategies that support and meet the needs of all learners.

College/School
Education and Human Sciences

Course Information

Course Title
Workshop in Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
CUED

Course Number
4850

Credit Hours

Credit Hours:
1

Credit Hours:
6

Other Hours

Min:
1

Max:
6

Operator:
TO

Course Description
Credit 1 - 6.

College/School
Education and Human Sciences

Course Information

Course Title
Study Abroad

Academic Level (Course Level)
Undergraduate

Course Subject Code
CUED

Course Number
4900

Credit Hours

Credit Hours:
1

Credit Hours:
6

Lecture Hours

Min:
1

Max:
6

Course Description
This course provides students the opportunity to engage in a Faculty-led study abroad experience which may involve a service-learning component. All participants must comply with established policy, procedures, and guidelines outlined in the Faculty-led Program Abroad Handbook maintained by Tennessee Tech's Study Abroad Office. Students in the 5000 level course will complete additional work. May be repeated for credit.

College/School
Education and Human Sciences

Digital Literacy: Media, Information, and Design

Course Information

Course Title
Digital Lit: Media/Info/Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
DLED

Course Number
2000

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
No

Course Description
Introduces essential skills of digital literacy in the areas of media, information, and design. Evaluate digital claims, explore the role of AI, and analyze how technology shapes perception. Emphasis is placed on creative practice, critical thinking, and responsible engagement with digital technologies.

College/School
Education and Human Sciences

Syllabus
CI02b_SYL_DLED2000_Sept23_2025_EffF26.docx

Course Information

Course Title
Science/Social St for Yng Chld

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECED

Course Number
3150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Methods and techniques for teaching science and social studies to children PreK-3. Emphasis on inquiry methods and integration of curriculum for diverse learners. A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Note:
A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

Course Information

Course Title
Math,Sci, Soc Stu for Yng Chld

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECED

Course Number
3301

Credit Hours

Credit Hours:
7

Lecture Hours

Min:
7

Course Description
Prerequisite: Full admission to the Teacher Education Program. Developmentally appropriate materials and methods for integrated learning experiences in mathematics, science and social studies. Focus is on diverse and inclusive populations ages B-8. Includes practicum experiences. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: Full admission to the Teacher Education Program.

Families, Communities, & Professionals

Course Information

Course Title
Families/Communities/Profnls

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECED

Course Number
3600

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Integrated learning experiences with emphasis on developmentally appropriate approaches to working with families and communities.

College/School
Education and Human Sciences

Course Information

Course Title
Early Intervention Fld Exp

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECED

Course Number
4221

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lab Hours

Min:
1

Max:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program; ECED 4230(5230). Corequisite: ECED 4240(5240). Gain perspectives of children, families and professionals in the early intervention system. Field experience focuses on family/professional interactions and implementations of IFSP goals. A grade of B or better must be earned to advance to internship.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program; ECED 4230 (5230).

Corequisite:
ECED 4240 (5240).

Course Information

Course Title
Early Intervention I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECED

Course Number
4230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECSP 2400. Methods of service delivery for infants and toddlers with developmental delays and their families. Effective consultation, trans-disciplinary collaboration, service coordination, family centeredness, and culturally responsive practices. A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
ECSP 2400.

Course Information

Course Title
Early Intervention II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECED

Course Number
4240

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECED 4230(5230). Best practices in early intervention for a variety of special needs. Methods and curriculum development to enable effective reciprocal relationships with families. A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
ECED 4230 or ECED 5230

Note:
A minimum grade of B is required to meet degree requirements for Licensure and Practitioner Candidates.

Early Childhood Program Leadership, Administration and Assessment

Course Information

Course Title
Erly Chldhd Pg Ldr, Adm, Asmnt

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECED

Course Number
4260

Credit Hours

Credit Hours:
8

Lecture Hours

Min:
8

Course Description
Prerequisite: ECSP 2400. Course content focuses on early childhood leadership skills, administration, and assessment. Participants gain knowledge and skills in the planning, implementation, and evaluation of early childhood programs. In addition, assessment of administrator knowledge, skills, and experience will be conducted.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
ECSP 2400.

Early Childhood Advocacy & Leadership

Course Information

Course Title
Early Chldhd Advocacy/Leadrshp

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECED

Course Number
4261

Credit Hours

Credit Hours:
6

Credit Hours:
8

Lecture Hours

Min:
6

Max:
8

Repeatable for Credit:
No

Course Description
Early childhood administrator leadership skills, administration, and assessment. Knowledge and skills in the planning, implementation and evaluation of early childhood programs. Assessment of administrator knowledge, skills and experience.

College/School
Education and Human Sciences

Course Information

Course Title
Early Childhood Internship I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECED

Course Number
4270

Credit Hours

Credit Hours:
3

Credit Hours:
7

Lab Hours

Min:
6

Max:
14

Course Description
Prerequisites: ECED 4230 (5230). Supervised work experience in an early childhood related field with professional-level responsibilities.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
ECED 4230 (5230).

Course Information

Course Title
Internship I Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECED

Course Number
4275

Credit Hours

Credit Hours:
9

Lecture Hours

Min:
9

Repeatable for Credit:
No

Course Description
Prerequisites: Full admission to the Teacher Education Program. Corequisite: ECED 4280. Advanced internship seminar course prepares students for immersive engagement in an early childhood agency. Provides necessary preparation for internship placements. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
EH

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
ECED 4280

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Early Childhood Internship II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECED

Course Number
4280

Credit Hours

Credit Hours:
7

Lab Hours

Min:
7

Repeatable for Credit:
No

Course Description
Prerequisites: ECED 4230 (5230); Full admission to the Teacher Education Program. Corequisite: ECED 4275. Continued, supervised work experience in an early childhood related field with professional-level responsibilities. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
ECED 4230

Corequisite:
ECED 4275

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Community Connections

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECED

Course Number
4290

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECSP 2400. Survey of community resources for families and young children, with an emphasis on federal, state, and local programs.

College/School
EH

Course Information

Course Title
Children with Special Needs

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
2400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Knowledge of risk factors, developmental delay, and categories of disability. Understanding of special education and its emphasis on prevention, early intervention, and services in normal environments.

College/School
Education and Human Sciences

Course Information

Course Title
The Dev Child:Pre-Birth-8

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
2500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Discussion of research and major development theories as they related to physical, social/emotional, linguistic and cognitive domains with applications to teaching and working with young children. Emphasis on understanding typical as well as atypical development.

College/School
Education and Human Sciences

Course Information

Course Title
Curr/Infant-Toddler-Preschlr

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
3001

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Survey of developmentally appropriate curricula for young children through age five with emphasis on creative activities, books and materials, toys, teacher-made resources, software, and specialized curricula for children with special needs. Practicum embedded in course. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Dev Approp Pract:Birth-Preschl

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
4000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequsite: ECSP 4010. Integrated learning experiences with emphasis on approaches, teaching strategies, and management. A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
ECSP 4010.

Course Information

Course Title
Practicum: Preschool Practices

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
4010

Credit Hours

Credit Hours:
2

Lab Hours

Min:
2

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: ECSP 4000. This course includes supervised teaching of integrated learning experiences with emphasis on developmentally appropriate approaches, teaching strategies, management and inclusion for preschool students. A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
ECSP 4000.

Course Information

Course Title
Dev Approp Pract/K-4

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Curriculum, instruction, management, and assessment for grades K-4 in diverse and inclusive settings. Practicum embedded into course. A minimum grade of B is required to meet degree requirements. A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Assessment of Young Children

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
4300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program; ECSP 2400. Theories, principles and practices associated with child find, assessment, and evaluation of young children, their families, and their environments.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program; ECSP 2400.

Supportive Interactions & Environments in ECED

Course Information

Course Title
Sup Interactions/Environ/ECED

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Prepares the student to build rapport with children and families; create supportive learning environments; demonstrate positive social-emotional teaching strategies; define specific discipline and guidance strategies; assess challenging behaviors; describe specific interventions related to challenging behaviors; and gain understanding of trauma-informed approaches to enhance ability to guide young children. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Note:
Note:

A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Residency I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
4871

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: ECSP 4010 and FOED 3810 grade “B” or better; full admission to the Teacher Education Program, and full admission to Residency I. Corequisite: ECSP 4872. Performance based clinical experience in authentic settings involving planning appropriate instruction based on student’s needs, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice. A minimum grade of B is required to meet degree requirements.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
ECSP 4010 and FOED 3810 grade B or better; full admission to the Teacher Education Program, and full admission to Residency I..

Corequisite:
ECSP 4872.

Course Information

Course Title
Professional Seminar I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
4872

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: ECSP 4871. Seminar for Residency I candidates to develop curriculum, identify effective instructional strategies, and implement appropriate assessment methods to support and meet the needs of all learners. A minimum grade of B is required to meet requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
ECSP 4871.

Course Information

Course Title
Application of Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
4875

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program. Connecting theory to practice, reflective teaching, learning segment design, and data collection and analysis. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
EH

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Residency II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
4881

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Course Description
Prerequisite: ECSP 4871 with a grade of B, and Full admission to the Teacher Education Program. Corequisite: ECSP 4882. Performance-based full time clinical experience in authentic settings involving planning appropriate instruction based on student's needs, demonstrating effective instructional strategies, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice. A minimum grade of B is required to meet degree requirements.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
ECSP 4871 with a grade of B, and full admission to the Teacher Education Program.

Corequisite:
ECSP 4882.

Course Information

Course Title
Professional Seminar II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
4882

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: ECSP 4881. Seminar for residency II candidates supporting professional development in areas of planning, assessment, instruction, classroom management, communication and reflection.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
ECSP 4881.

Course Information

Course Title
Residency

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
4900

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Course Description
Prerequisite: ECSP 4875; Full admission to the Teacher Education Program. Corequisite: ECSP 4925. Performance based clinical experience in authentic settings involving planning appropriate instruction based on students' needs, creating a positive learning environment, communicating and collaborating with colleagues and others, and effectively assessing student learning and reflecting on practice. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
ECSP 4875; Full admission to the Teacher Education Program.

Note:
Note:

A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Application of Teaching

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECSP

Course Number
4925

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: ECSP 4900. Performance based clinical experience in authentic settings involving planning appropriate instruction based on students' needs, creating a positive learning environment, communicating and collaborating with colleagues and others, and effectively assessing student learning and reflecting on practice.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
ECSP 4900

Course Information

Course Title
Teaching of Social Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
ELED

Course Number
3142

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisites: ELED 3152, ELED 4142, FOED 3800. Prepares pre-service teachers to be able to effectively engage diverse populations of K-5 students with social studies content in reading, writing, speaking and listening. An emphasis will be placed on teaching practices that develop students' critical thinking skills, specifically historical thinking and inquiry. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: Full admission to the Teacher Education Program.

Corequisite:
ELED 3152, ELED 4142, FOED 3800

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Teaching of Mathematics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ELED

Course Number
3152

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: ELED 3142, ELED 4142, FOED 3800. Use of modern methods and strategies for teaching mathematics and translating theory into practice. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
Enrolled in FOED3800, ELED3140, ELED3151, ELED4140, ELED3140, ELED4142, FOED3800, ELED3140, ELED4142, FOED3800, ELED3142, ELED4140

Course Information

Course Title
Foundational Mathematics Mthds

Academic Level (Course Level)
Undergraduate

Course Subject Code
ELED

Course Number
3155

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Comprehensive exploration of identifying and implementing high-quality instructional materials and effective strategies tailored for teaching mathematics in K–2 classrooms. Research-based teaching methods and techniques, special emphasis on inquiry-based approaches to enrich problem-solving and critical thinking abilities among diverse learners. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Teaching of Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
ELED

Course Number
4142

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: ELED 3142, ELED 3152 and FOED 3800. Curricula content of elementary school science including materials and methods of developing understanding and skills in science for children. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
ELED 3140, ELED 3152, FOED 3800.

Course Information

Course Title
Residency I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ELED

Course Number
4871

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: FOED 3810 and FOED 3800 grade “B” or better, Full admission to the Teacher Education Program and full admission to Residency I. Corequisite: ELED 4872. Performance based clinical experience in authentic settings involving planning appropriate instruction based on student’s needs, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice. A minimum grade of B is required to meet degree requirements.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
FOED 3810 and FOED 3800 grade "B" or better, full admission to the Teacher Education Program and full admission to Residency I.

Corequisite:
ELED 4872.

Course Information

Course Title
Professional Seminar I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ELED

Course Number
4872

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: ELED 4871. Seminar for Residency I candidates to develop curriculum, identify effective instructional strategies, and implement appropriate assessment methods to support and meet the needs of all learners. A minimum grade of B is required to meet requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
ELED 4871.

Course Information

Course Title
Application of Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
ELED

Course Number
4875

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Develop engaging strategies that support and meet the needs of all learners. Identify and learn to implement engaging strategies related to students' developmental, cultural, and socioeconomic factors. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: Full admission to the Teacher Education Program.

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Residency II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ELED

Course Number
4881

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Course Description
Prerequisite: ELED 4871 with a grade of B. Full admission to the Teacher Education Program. Corequisite: ELED 4882. Performance based full time clinical experience in authentic settings involving planning appropriate instruction based on student's needs, demonstrating effective instructional strategies, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice. A minimum grade of B is required to meet degree requirements.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
ELED 4871 with a grade of B, full admission to the Teacher Education Program.

Corequisite:
ELED 4882.

Course Information

Course Title
Professional Seminar II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ELED

Course Number
4882

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: ELED 4881. Seminar for residency II candidates supporting professional development in areas of planning, assessment, instruction, classroom management, communication and reflection.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
ELED 4881.

Course Information

Course Title
Residency

Academic Level (Course Level)
Undergraduate

Course Subject Code
ELED

Course Number
4900

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: ELED 4925. Performance based clinical experience in authentic settings involving planning appropriate instruction based on students' needs, creating a positive learning environment, communicating and collaborating with colleagues and others, and effectively assessing student learning and reflecting on practice. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: Full admission to the Teacher Education Program.

Corequisite:
Corequisite: ELED 4925.

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Application of Teaching

Academic Level (Course Level)
Undergraduate

Course Subject Code
ELED

Course Number
4925

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: ELED 4900. Performance based clinical experience in authentic settings involving planning appropriate instruction based on students' needs, creating a positive learning environment, communicating and collaborating with colleagues and others, and effectively assessing student learning and reflecting on practice.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program

Corequisite:
ELED 4900

ESL Pedagogy: Secondary Education Methodology and Materials

Course Information

Course Title
ESL Ped: Sec EDU Meth/Matr

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESLP

Course Number
3100

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
Examination of research-based methods for teaching English learners in secondary classrooms. Topics include language acquisition, assessment, and literacy development. Emphasis is placed on integrating language and content to support the academic success of all students.

College/School
Education and Human Sciences

Teaching English Learners in Secondary Classrooms

Course Information

Course Title
Tchng English Lrnrs/SEED Class

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESLP

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program. Examines research-based methods for teaching English learners in secondary classrooms. Topics include language acquisition, assessment, and literacy development. Emphasis is placed on integrating language and content to support the academic success of all students. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Syllabus
CI13a_SYL_ESLP_3200_Nov13_2025_EffF26_CAEP.docx

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

ESL Methods and Materials for PreK-12

Course Information

Course Title
ESL M,M for Pre K-12

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESLP

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program. Introduction of foundational concepts in second or additional language acquisition, key language theories, and instructional strategies supporting English development in preK–12 classrooms, with emphasis on methods and materials that promote listening, speaking, reading, and writing. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

ESL Assessment and Writing

Course Information

Course Title
ESL Assmnt: Reading & Writing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESLP

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program; ESLP 4100 (5100). Assessment in second or additional language acquisition is examined through analysis of tools, procedures, and results, with emphasis on using assessment data to guide instructional decisions that support language development. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program; ESLP 4100 (5100).

Course Information

Course Title
Field Experience in ESL

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESLP

Course Number
4300

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program; ESLP 4100 (5100) or consent of instructor. Teaching ESL in preK-12 under supervision of experienced ESL staff: writing objectives, planning lessons, materials evaluation, testing.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program; ESLP 4100 (5100) or consent of instructor.

ESOL 4400: Foundations of Language for ESOL Educators

Course Information

Course Title
Fndtns/Lang for ESOL Edu

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESOL

Course Number
4400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program; ESLP 4100. Explores students' language acquisition and language development. Focuses on introduction of the language as a broad system in order to help future ESL educators to successfully navigate through language acquisition theories and foundations of linguistics. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program; ESLP 4100.

Course Information

Course Title
Education and Technology

Academic Level (Course Level)
Undergraduate

Course Subject Code
FOED

Course Number
2050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An overview of school in America, the role and responsibility of the teacher, and an introduction to instructional technology principles and practices. Observation and discussion of authentic educational settings appropriate for licensure area(s). A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Integrating Instructional Technology into the Classroom

Course Information

Course Title
Integr Inst Tech into Clsrm

Academic Level (Course Level)
Undergraduate

Course Subject Code
FOED

Course Number
3010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FOED 2050. Using, integrating and evaluating instructional technology in today's classroom. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
FOED 2050

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Field Exp in Edu

Academic Level (Course Level)
Undergraduate

Course Subject Code
FOED

Course Number
3800

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lab Hours

Min:
4

Max:
12

Course Description
Perquisite: Full admission to the Teacher Education Program. Supervised work experiences in public schools stressing the translation of theory into practice. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Field Exp in Edu

Academic Level (Course Level)
Undergraduate

Course Subject Code
FOED

Course Number
3810

Credit Hours

Credit Hours:
1

Credit Hours:
2

Lab Hours

Min:
4

Max:
12

Course Description
Prerequisite: Full admission to the Teacher Education Program. Supervised work experiences in public schools stressing the translation of theory into practice. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Field Exp in Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
FOED

Course Number
3820

Credit Hours

Credit Hours:
1

Credit Hours:
2

Lab Hours

Min:
4

Max:
12

Course Description
Prerequisite: Full admission to the Teacher Education Program. Supervised work experiences in public schools stressing the translation of theory into practice. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Field Experience in Education

Course Information

Course Title
Field Exp in Edu

Academic Level (Course Level)
Undergraduate

Course Subject Code
FOED

Course Number
3830

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lab Hours

Min:
4

Max:
12

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: CUED 4150. Supervised work experiences in public schools stressing the translation of theory into practice. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
CUED 4150.

Course Information

Course Title
Field Experiences in ESL

Academic Level (Course Level)
Undergraduate

Course Subject Code
FOED

Course Number
3840

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lab Hours

Min:
4

Max:
12

Course Description
Prerequisite: ESLP 4100(5100); Full admission to the Teacher Education Program. Supervised work experiences in public schools stressing the translation of theory into practice and focusing on teaching English Language Learners in PreK-12 settings.. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
ESLP 4100 (5100). Full admission to the Teacher Education Program.

Course Information

Course Title
Field Experience in SPED

Academic Level (Course Level)
Undergraduate

Course Subject Code
FOED

Course Number
3850

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lab Hours

Min:
4

Max:
12

Course Description
Prerequisite: Full admission to the Teacher Education Program. Supervised work experiences in public schools for students who receive the continuum of special education services. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Field Experiences in SPED

Academic Level (Course Level)
Undergraduate

Course Subject Code
FOED

Course Number
3855

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lab Hours

Min:
4

Max:
12

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program. Supervised work experiences in public schools for students who receive the intervention special education services. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Syllabus
CI13b_SYL_FOED_3855_Nov13_2025_EffF26_CAEP.docx

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education program.

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Field Experiences in Education

Course Information

Course Title
Field Exps in Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
FOED

Course Number
3860

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lab Hours

Min:
2

Max:
6

Course Description
Prerequisite: Full admission to the Teacher Education Program. Supervised field experiences in middle or high school settings, stressing the translation of theory into practice with a focus on current and special topics. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Note:
Note:

A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Field Experiences in ECSP

Academic Level (Course Level)
Undergraduate

Course Subject Code
FOED

Course Number
3880

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lab Hours

Min:
2

Max:
6

Course Description
Prerequisite: Full admission to the Teacher Education Program. Supervised teaching of integrated learning experiences with emphasis on developmentally appropriate approaches for young children with special needs, individualized teaching strategies, management, and inclusive environments. A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

College/School
EH

FOED 3890: Virtual Practicum for Secondary

Course Information

Course Title
Virtual Practicum/Secondary

Academic Level (Course Level)
Undergraduate

Course Subject Code
FOED

Course Number
3890

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lab Hours

Min:
4

Max:
12

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program. Virtual observation of secondary classrooms, stressing the translation of theory into practice. Overview of digital literacy and artificial intelligence tools available to support teachers, including the implementation of such tools with realistic classroom scenarios. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Syllabus
CI02a_SYL_FOED3890_Sept23_2025_EffF26_CAEP.docx

Course Information

Course Title
Young Adult Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
LSCI

Course Number
4570

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Cross-listing: READ 4570. A survey of young adult literature appropriate for middle and high school students with a focus on contemporary and diverse works. Junior standing required.

College/School
Education and Human Sciences

Course Information

Course Title
College Reading Advancement

Academic Level (Course Level)
Undergraduate

Course Subject Code
READ

Course Number
1150

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Course Description
Advancement of reading skills includes vocabulary, spelling, comprehension, rate, main idea, supporting details, organization and relationships, and critical and strategic reading.

College/School
Education and Human Sciences

Course Information

Course Title
Inclusive Early Literacy

Academic Level (Course Level)
Undergraduate

Course Subject Code
READ

Course Number
3310

Credit Hours

Credit Hours:
6

Lecture Hours

Min:
6

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3810. Study in emergent and early literacy learning (birth through age 8) combines theory and practice in literacy assessment, teaching reading, writing, and language arts. Emphasis on addressing the needs of young children with developmental, communication and language delays. A minimum grade of B or better is required to meet requirements for licensure and practitioner candidates.

College/School
EH

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
FOED 3810

Note:
A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

Course Information

Course Title
Literacy-Special Populations

Academic Level (Course Level)
Undergraduate

Course Subject Code
READ

Course Number
3313

Credit Hours

Credit Hours:
5

Lecture Hours

Min:
5

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3810. This course is an integration of the five main components of reading plus writing, which are fundamental to the development of literacy from birth through middle grades. It includes a study of language development and communication skills, language arts, content area reading, and the assessment and selection of appropriate instructional strategies based upon student need.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
FOED 3810.

Course Information

Course Title
Literacy for Middle School

Academic Level (Course Level)
Undergraduate

Course Subject Code
READ

Course Number
3314

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Integration of concepts fundamental to the development of literacy from birth through middle grades. Includes a study of language development and communication skills, language arts, content area reading, and the assessment and selection of appropriate instructional strategies based upon student need. A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Foundations of Lit/Excep Lrnrs

Academic Level (Course Level)
Undergraduate

Course Subject Code
READ

Course Number
3315

Credit Hours

Credit Hours:
7

Lecture Hours

Min:
7

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3810. Literacy development from birth through middle grades. Topics include: integrating knowledge of foundational literacy skills and the developmental, cultural, linguistic, and motivational aspects of literacy to design and implement multi-sensory methods of structured literacy instruction; the selection, facilitation, and interpretation of valid assessments; and the evaluation and selection of materials for teaching reading, spelling, and writing based on individual students' strengths and needs. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
FOED 3810.

Course Information

Course Title
Literacy Methods

Academic Level (Course Level)
Undergraduate

Course Subject Code
READ

Course Number
3320

Credit Hours

Credit Hours:
6

Lecture Hours

Min:
6

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3810. Essential concepts and instructional strategies for teaching literacy to young children in kindergarten through 2nd grade. Science of reading, foundational literacy skills, literacy assessments, and language development. Effective instructional methods and strategies, such as structured literacy instruction and universal design for learning. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
EH

Course Information

Course Title
Advanced Literacy Methods

Academic Level (Course Level)
Undergraduate

Course Subject Code
READ

Course Number
3325

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Advanced literacy strategies and methods tailored to children in grades 3-5. Theories in literacy instruction, multisyllabic word reading, advanced vocabulary development, comprehension, morphology, decoding, and orthography. Explore language elements such as pragmatics, semantic roles, syntax, discourse, and grammar.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: READ 3320; full admission to the Teacher Education Program.

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Inclusive Emergent Literacy

Academic Level (Course Level)
Undergraduate

Course Subject Code
READ

Course Number
3330

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program. Study in emergent literacy learning (birth through age 5) combines research, theory and practice in literacy assessment, teaching reading, writing, and language arts. Emphasis on addressing the needs of young children with developmental, communication and language delays. A grade of B is required to meet degree requirements for licensure and practitioner candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: Full admission to the Teacher Education Program.

Note:
A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

Course Information

Course Title
Literacy/Exceptional Learners

Academic Level (Course Level)
Undergraduate

Course Subject Code
READ

Course Number
3335

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Integrates language development, communication skills, the five main components of reading, writing, reading and writing in the content areas, evaluation and selection of high-quality instructional literacy resources, and research-based instructional methods appropriate for all students, including students with special learning needs. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: READ 3320; full admission to the Teacher Education Program.

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Teach Reading/Content Areas

Academic Level (Course Level)
Undergraduate

Course Subject Code
READ

Course Number
3350

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Emphasis on skills needed for content area reading and selection of materials and appropriate techniques for diverse learners.

College/School
Education and Human Sciences

Course Information

Course Title
Read/Write Connctn:Secondary

Academic Level (Course Level)
Undergraduate

Course Subject Code
READ

Course Number
4411

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education. Corequisite: READ 3350. Explores the connection between the reading and writing process as a means of mutual improvement.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
READ 3350.

Course Information

Course Title
Young Adult Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
READ

Course Number
4570

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A survey of young adult literature appropriate for middle and high school students with a focus on contemporary and diverse works.

College/School
Education and Human Sciences

Course Information

Course Title
Mtrls/Meth-Tch English

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program; READ 4411 (5411); and COMM 2025 or PC 2500. Corequisite: FOED 3820. Prerequisite or corequisite: Any two of the following: ENGL 3810, ENGL 3820, ENGL 3910, or ENGL 3920; and READ 3350. Principles, objectives, techniques, and evaluation in secondary school teaching of English. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program; READ 4411 (5411); and COMM 2025 or PC 2500.

Corequisite:
FOED 3820.

Prerequisite or corequisite:
Prerequisite or corequisite:

Any two of the following: ENGL 3810, ENGL 3820, ENGL 3910, or ENGL 3920; and READ 3350.

Course Information

Course Title
Mtrls/Meth-Tch Career Tech Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4121

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Principles, objectives, techniques, and evaluation in secondary school teaching of career technical education. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Course Information

Course Title
Mtrls/Meth-Tch Math

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4122

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3820. Principles, objectives, techniques, and evaluation in secondary school teaching of mathematics. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
FOED 3820.

Course Information

Course Title
Mtrls/Meth-Tch the Sciences

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4123

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3820 Principles, objectives, techniques, and evaluation in secondary school teaching of the sciences. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
FOED 3820.

Course Information

Course Title
Mtrls/Meth-Tch Soc Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4124

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3820. Principles, objectives, techniques, and evaluation in secondary school teaching of social studies. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
FOED 3820.

Course Information

Course Title
Mtrls/Meth-Tch Foreign Lang

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4125

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3800. Principles, objectives, techniques, and evaluation in secondary school teaching of foreign languages. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
FOED 3800 or CUED 6800.

Course Information

Course Title
Teaching Algebra in Middle/HS

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4322

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Topics in Algebra, philosophy, new trends, and methods of teaching algebra in Grades 5-12.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Teach Sec Math Using Techn

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4422

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Exploring technologies specific to mathematics teaching and appropriate applications of these technologies in the classroom.

College/School
Education and Human Sciences

Course Information

Course Title
Application of Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4850

Credit Hours

Credit Hours:
5

Lecture Hours

Min:
5

Course Description
Develop engaging strategies that support and meet the needs of all learners. Identify and learn to implement engaging strategies related to students' developmental, cultural, and socioeconomic factors. A minimum grade of B is required to meet requirements for licensure candidates.

College/School
EH

Course Information

Course Title
Residency I

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4871

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: FOED 3820 grade "B" or better, Full admission to the Teacher Education Program and full admission to Residency I. Corequisite: SEED 4872. Performance based clinical experience in authentic settings involving planning appropriate instruction based on student's needs, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice. A minimum grade of B is required to meet degree requirements.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
SEED 4872.

Corequisite:
SEED 4872.

Course Information

Course Title
Professional Seminar I

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4872

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: SEED 4871. Seminar for Residency I candidates to develop curriculum, identify effective instructional strategies, and implement appropriate assessment methods to support and meet the needs of all learners. A minimum grade of B is required to meet requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
SEED 4871.

Corequisite:
SEED 4871.

Course Information

Course Title
Application of Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4875

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program. Prepares candidates to teach all learners in middle/secondary settings by applying educational theory and research-based practice aligned with current teacher-evaluation models. Emphasizes assessment for learning, balanced questioning and discourse, student-centered pedagogy, engagement with current issues, and professional dispositions to build a practical, adaptable toolkit for grades 6–12. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Syllabus
CI13c_SYL_SEED_4875_Nov13_2025_EffF26_CAEP.docx

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Residency II

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4881

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Course Description
Prerequisite: SEED 4871 with a grade of B. Full admission to the Teacher Education Program. Corequisite: SEED 4882. Performance based full time clinical experience in authentic settings involving planning appropriate instruction based on student's needs, demonstrating effective instructional strategies, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice. A minimum grade of B is required to meet degree requirements.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
SEED 4871 with a grade of B; full admission to the Teacher Education Program.

Corequisite:
SEED 4882.

Course Information

Course Title
Professional Seminar II

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4882

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Corequisite: SEED 4881 . Seminar for residency II candidates supporting professional development in areas of planning, assessment, instruction, classroom management, communication and reflection.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
SEED 4881.

Course Information

Course Title
Residency

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4900

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Course Description
Prerequisite: SEED 4850; Full admission to the Teacher Education Program. Corequisite: SEED 4925. Performance based clinical experience in authentic settings involving planning appropriate instruction based on students' needs, creating a positive learning environment, communicating and collaborating with colleagues and others, and effectively assessing student learning and reflecting on practice. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
SEED 4850; Full admission to the Teacher Education Program

Corequisite:
SEED 4925

Note:
SEED 4850; Full admission to the Teacher Education Program

Course Information

Course Title
Application of Teaching

Academic Level (Course Level)
Undergraduate

Course Subject Code
SEED

Course Number
4925

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: SEED 4900. Performance based clinical experience in authentic settings involving planning appropriate instruction based on students' needs, creating a positive learning environment, communicating and collaborating with colleagues and others, and effectively assessing student learning and reflecting on practice.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program

Corequisite:
SEED 4900

Course Information

Course Title
Intro to Special Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is designed to provide candidates with: (a) an understanding of historical and contemporary perspectives on the critical issues of students with exceptional needs and the state of federal laws influencing the education of exceptional students, (b) an understanding of the characteristics and needs of children placed in the most prevalent disability categories, and (c) to provide candidates with an overview of special education service delivery models, methods and procedures as indicated by research and practical applications.

College/School
Education and Human Sciences

Supporting all Learners in Secondary Education

Course Information

Course Title
Supporting all Learners/SEED

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
3000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program. Teaching strategies, accommodations/modifications, characteristics of high-incidence disabilities, co-teaching practices, and behavior management/RTI in content and secondary areas. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Supporting all Learners in Elementary Education

Course Information

Course Title
Supporting all Learners/ELED

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
3001

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education program. Teaching strategies, accommodations/modifications, characteristics of high-incidence disabilities, co-teaching practices, and behavior management/RTI. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Applying University Learning Principles

Course Information

Course Title
Applying Univ Lrng Principles

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
3015

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite: SPED 2010. Investigating research and evidence-based strategies for improving student outcomes through universally designed instruction, environments, and assessments. Topics include affective, social, environmental, and neurological aspects of learning; and designing and implementing accessible and equitable instruction and assessments.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
SPED 2010

Course Information

Course Title
Charact of Persons Compre/Disa

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPED 2010, and full admission to the Teacher Education Program. Corequisite: FOED 3850. Provide an intensive study into the various types of low incidence disabilities. In addition to the characteristics of these disabilities, students will explore a broad range of research-based teaching strategies and techniques for working with this population using systematic data-driven instruction. A minimum grade of B is required to meet degree requirements for licensure candidates

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
SPED 2010 and full admission to the Teacher Education Program.

Corequisite:
FOED 3850.

Course Information

Course Title
Specific Learning Disabilities

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
3030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: SPED 2010, and full admission to the Teacher Education Program. Corequisite: FOED 3855. History and background of identification of specific learning disabilities, the characteristics of specific learning disabilities, diagnostic criteria, current Federal and state laws and policies, the role of Response to Intervention and Multi-Tiered Systems of Support, and designing data-based individualized instruction. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite:

SPED 2010 and full admission to the Teacher Education Program.

Corequisite:
Corequisite:

FOED 3855.

Course Information

Course Title
Phys Mgmt/Support Serv-Impr

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
3031

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequsite: Full admission to the Teacher Education Program. Introduction to medical and educational support services. Emphasizes handling, instructional modifications, and support services. A minimum grade of B is required to meet requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Universal Design for SPED

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
3050

Credit Hours

Credit Hours:
5

Lecture Hours

Min:
5

Course Description
Prerequisite: SPED 2010. Investigating research-based strategies for improving student outcomes through universally designed instruction, environments, and assessments. Topics include affective, environmental, and neurological aspects of learning; trauma informed practices, and designing and implementing accessible and equitable assessments and instruction.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
SPED 2010.

Course Information

Course Title
Behavior Concepts

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
3110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Focus on defining applied behavior analysis; selecting, assessing and evaluating behavior to change; and functional and experimental analyses of behavior change.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
App Behav Analy for Teachers

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Overview of the principles of behavior applied to instructional management. A minimum grade of B is required to meet requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Interventions and Supports

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
3120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program and SPED 3110. Focus on the development of new behaviors, various clinical interventions for decreasing interfering behaviors, and maintaining behavioral changes.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program and SPED 3110.

Course Information

Course Title
Collaboration/Incl Practice

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPED 2010, SPED 3050, Full admission to the Teacher Education Program. This course is designed so candidates can gain research-based and practical knowledge of inclusion, collaboration, and co-teaching. It is designed for the special educator who will be working in resource or inclusive settings in the local education agency.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
SPED 2010, SPED 3050 and full admission to Teacher Education Program.

Corequisite:
SPED 4871

Course Information

Course Title
Behavioral Assessment

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full Admission to the Teacher Education Program, SPED 3110, and 3120. Focus on verbal behavior, motivating operations, and the use of functional analysis in treating common disorders.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program, SPED 3110 and SPED 3120.

Course Information

Course Title
Topics in Behavior

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full Admission to the Teacher Education Program, SPED 3110, 3120, and 4110. Focus on ethics in the implementation of behavior services and special uses of behavioral assessment.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program, SPED 3110, SPED 3120 and SPED 4110.

Course Information

Course Title
Collaborative Practices

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4155

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: SPED 3015; Full admission to the Teacher Education Program. Concepts of co-teaching and collaborative relationships in the school-setting. A focus will be placed on best co-teaching practices, relationship development with professionals and families, and how collaborative relationships can be used to improve student learning and outcomes. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
EH

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Note:
A minimum grade of 'B' is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Community Res/Practicum I

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4170

Credit Hours

Credit Hours:
7

Other Hours

Min:
7

Course Description
Prerequisite: Full Admission to the Teacher Education Program, SPED 3110, and SPED 3120. Corequisite: SPED 4110. Provides an internship experience by working with persons with disabilities within the community setting by allowing the demonstration/implementation of factual knowledge and skills gained through coursework and hands-on experience. Implementing behavior intervention strategies and self-advocacy skills will show competence of this course and will be explored through weekly individual meetings with university faculty.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite:

Full Admission to the Teacher Education Program, SPED 3110 and SPED 3120.

Corequisite:
Corequisite:

SPED 4110.

Course Information

Course Title
Community Res/Praticum II

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4180

Credit Hours

Credit Hours:
9

Other Hours

Min:
9

Course Description
Prerequisite: Full Admission to the Teacher Education Program, and SPED 4170. Corequisite: SPED 4120. Provides an intensive internship experience by working with persons with disabilities within the community setting. Through individual mentorship of university faculty, the student will demonstrate skills necessary to implement methods in a variety of placements and the knowledge to complete mandatory state required paperwork, intensive behavior supports, and self-advocacy skills.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite:

Full Admission to the Teacher Education Program and SPED 4170.

Corequisite:
Corequisite:

SPED 4120.

Course Information

Course Title
Tchng Stu-Autism Spec Disordr

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Within the context of persons with ASD, this course is designed to provide the student with a model of the teaching process progressing from identification, to instructional design, to the use of research-validated methods for instructional delivery and the provision of needed educational, social, academic, and behavioral supports. A minimum grade of B is required to meet requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Individualized Edu Planning

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4300

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Full admission to the Teacher Education Program. This course will provide an intensive study of the IEP process including writing appropriate Individual Education Plans (IEP) to meet individuals needs of a student. A minimum grade of B is required to meet the requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Individualized Stu Planning

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Intensive study of the educational process that includes writing appropriate Individual Education Plans (IEP) to meet individuals needs of a student who receives special education services in the public schools. A minimum grade of B is required to meet the requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Communication Disorders

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program. Introduction to speech-language pathology and audiology, emphasizing communication and swallowing disorders across the lifespan. Learn key principles of assessment and intervention and explore collaborative practices with families and multidisciplinary teams in educational, clinical, and community settings. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Syllabus
CI13d_SYL_SPED_4500_Nov13_2025_EffF26_CAEP.docx

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Residency I

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4871

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: FOED 3810 grade “B” or better, Full admission to the Teacher Education Program and full admission to Residency I. Corequisite: SPED 4872. Performance based clinical experience in authentic settings involving planning appropriate instruction based on student’s needs, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice. A minimum grade of B is required to meet degree requirements.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite:

FOED 3810 grade B or better, full admission to the Teacher Education Program, and full admission to Residency I.

Corequisite:
Corequisite:

SPED 4872.

Course Information

Course Title
Professional Seminar I

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4872

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: SPED 4871. Seminar for residency I candidates to develop curriculum, identify effective instructional strategies, and implement appropriate assessment methods to support and meet the needs of all learners. A minimum grade of B is required to meet requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite:

Full admission to the Teacher Education Program.

Corequisite:
Corequisite:

SPED 4871.

Course Information

Course Title
Application of Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4875

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Gain factual knowledge concerning evaluation, assessment and measurement and how they are interrelated and how assessment drives curriculum. Examine authentic and curriculum-based measurements including modifying existing assessments or creating assessments, including formative and summative assessments. Knowledge and skills in the administration and interpretation of educational assessment instruments used in the evaluation of persons with disabilities. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: Full admission to the Teacher Education Program.

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Residency II

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4881

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Course Description
Prerequisite: SPED 4871 with a grade of B, and Full admission to the Teacher Education Program. Performance based full time clinical experience in authentic settings involving planning appropriate instruction based on student's needs, demonstrating effective instructional strategies, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice. A minimum grade of B is required to meet degree requirements.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
SPED 4871 with a grade of B or better, and full admission to the Teacher Education Program.

Corequisite:
SPED 4882

Course Information

Course Title
Professional Seminar II

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4882

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: SPED 4881. Seminar for residency II candidates supporting professional development in areas of planning, assessment, instruction, classroom management, communication and reflection.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
SPED 4881.

Course Information

Course Title
Residency

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4900

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: SPED 4925. Performance based clinical experience in authentic settings involving planning appropriate instruction based on students' needs, creating a positive learning environment, communicating and collaborating with colleagues and others, and effectively assessing student learning and reflecting on practice. A minimum grade of B is required to meet degree requirements for licensure candidates.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: Full admission to the Teacher Education Program.

Corequisite:
Corequisite: SPED 4925.

Note:
A minimum grade of B is required to meet degree requirements for licensure candidates.

Course Information

Course Title
Application of Teaching

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPED

Course Number
4925

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: SPED 4900. Performance based clinical experience in authentic settings involving planning appropriate instruction based on students' needs, creating a positive learning environment, communicating and collaborating with colleagues and others, and effectively assessing student learning and reflecting on practice.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: Full admission to the Teacher Education Program.

Corequisite:
Corequisite: SPED 4900.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SVCL

Course Number
4150

Credit Hours

Credit Hours:
0

Credit Hours:
9

Lecture Hours

Min:
0

Max:
9

Course Description
This course will coordinate and supervise service learning opportunities for students. The specific service learning activity will be designated in the title at each offering. The number of hours of credit will be based on the magnitude of the topic and the clock hours of face-to-face service learning effort. Course objectives and grading guidelines will be established by the faculty at the time each course is offered. Students in the 5000-level course will be required to complete additional coursework as stated in the syllabus.

College/School
Education and Human Sciences

Course Information

Course Title
Service Learning in Community

Academic Level (Course Level)
Undergraduate

Course Subject Code
SVCL

Course Number
4920

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Course Description
This course provides students with the opportunity to use their professional skills to better their community through service learning. this course may be repeated for credit. Students in the 5000-level course will be required to complete additional work as stated in the syllabus.

College/School
Education and Human Sciences

Decision Science/Management Department

Professor Armstrong, Interim Chair; Professors: Timmerman (W. Eugene Mayberry Professor of Management); Associate Professors: Turner; Assistant Professors: Baidoo, Clary, Jenkins, Matthews, Schoen, Toth, Williams, J.; Lecturers Langone, Wells, Williams, M, Williams, S.

The department offers majors in Business Management and Business and Information Technology. Business Management offers three concentrations: General Management (BUMA), Human Resource Management (BUHR), and Operations and Supply Chain Management (OSCM). Business and Information Technology offers a concentration in Business Analytics and Intelligence (BUBA).

General Management is the science of getting people and resources together to accomplish organizational goals and objectives. It can include things like planning, organizing, staffing and, most importantly, leading. General Management graduates obtain positions in administrative services management, lodging management, management consulting, meeting and convention planning, non-profit and community services administration, retail and food services management, project management, and property and facilities management.

Human Resource Management helps an organization make the best use of its most valuable asset: its people. The Human Resources function helps an organization select the best employees, develop them to meet their full potential, and reward them in ways that foster individual and organizational success. Human Resource Management graduates are hired in a wide variety of organizations including financial institutions, health care providers, manufacturing companies, and consulting firms. Entry-level jobs include recruiters, compensation analysts, and human resource assistants.

Operations and Supply Chain Management is the management of processes and operations used by businesses in the production of their goods and services. It is the study of efficiency and effectiveness. Manufacturing plants are the main employers of production/operations management personnel, but many service organizations, including health care organizations and banks, also hire graduates as operations analysts or quality and productivity analysts.

Business Analytics and Intelligence fundamentally involves the use of data to help decision-makers make better decisions. Through advanced statistical analysis, data visualization, and critical thinking, these students learn how to turn data into valuable insights in a variety of domains. There is a growing variety of career paths available for these graduates such as management analyst, operations research analyst, and quality control analyst.

Business and Information Technology students use information technology to solve business problems. This requires more than technical skills. Our program also emphasizes work place skills like business concepts, critical thinking, communications, working with people, project management, and thinking strategically about technology. Graduates often work as business applications developers, systems analysts, project leaders, database and network administrators, business consultants, and information systems managers.

The department houses two distinguished professorships in the state's program of chairs of excellence, allowing universities to attract eminent faculty and individuals of national and international prominence as chairholders: the J.E. Owen Chair of Excellence in Management Information Systems and the W. Eugene Mayberry Chair of Excellence in Quality and Technology Management

Programs

BAI-BSBA - Business AI & Analytics, B.S.B.A.

Program Overview

Program Long Title
Business AI & Analytics, B.S.B.A.

College/School
Business

Department(s)
Decision Science/Management

Requirements

Simple Requirements

Business AI and Analytics, BSBA (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Financial or Digital Literacy (3 hours)

Complete ANY of the following Course Sets:
- Financial Literacy or Digital Literacy (FFDL)

Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

College of Business majors meet the Social/Behavioral Science requirement with ECON2010 and ECON2020.

Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Major in Business AI & Analytics

Complete ALL of the following Courses:
- ACCT2110 - Principles of Accounting I
- ACCT2120 - Principles of Accounting II
- BMGT3510 - Mgmt/Organizational Behavior
- BMGT3720 - Business Communications I
- BMGT4930 - Business Strategy
- DS2810 - DS 2810: Computer Applications in Organizations
- DS3520 - DS 3520: Operations and Supply Chain Management
- DS3620 - Bus Anyltcs:Data Drv Dec Makng
- DS3810 - Prog Logic & Analytic Thinking
- DS3841 - Mgmt Information Systems
- DS3850 - Business Applications Develop
- DS3860 - Business Database Mgmt
- DS4210 - Business Intelligence
- DS4220 - Advanced Business Analytics
- DS4230 - Introduction to Generative AI
- DS4240 - Applied AI
- DS4510 - Business AI & Analytics Capstone
- ECON3610 - Business Statistics I
- FIN3210 - Principles/Managerial Fin
- LAW2810 - Business Legal Env & Ethics
- MKT3400 - Principles of Marketing

Directed Business Electives (6 credits) - Guided by department faculty based on area of focus chosen by the student.

Additional Program Requirements

Complete ALL of the following Courses:
- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- MATH1530 - Introductory Statistics
- MATH1710 - Pre-Calculus Algebra
- UBUS1020 - Success Skills-Bus Studies
- ELECTIVE - Elective Credit

Additional free electives (6 hours) are required to complete 120 earned hours.

Elective courses are to be selected in consultation with the academic advisor.

Flight Foundations Flexible Elective (4 cr.)

Select from Humanities/Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy.

Degree Map

Degree Map Name
Business AI & Analytics, BSBA (120 hours)
Total Degree Map Credits

120

Degree Map Effective Catalog Year

2627 -

Year	Semester	Actual Credits
Freshman Year	Fall	14

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Requirement Select
- UBUS1020 - Success Skills-Bus Studies

Actual Credits 1

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- DS2810 - DS 2810: Computer Applications in Organizations

Actual Credits 3

Requirement Select
- Flexible Elective (1 cr.) - choose from Humanities/Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy
(Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Spring	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Flexible Elective (3 cr.) - choose from Humanities/Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy
(Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Fall	16

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- ACCT2110 - Principles of Accounting I

Actual Credits 3

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring	15

Requirement Select
- ACCT2120 - Principles of Accounting II

Actual Credits 3

Requirement Select
- ECON3610 - Business Statistics I

Actual Credits 3

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- DS3810 - Prog Logic & Analytic Thinking

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Fall	15

Requirement Select
- DS3620 - Bus Anyltcs:Data Drv Dec Makng

Actual Credits 3

Requirement Select
- DS3850 - Business Applications Develop

Actual Credits 3

Requirement Select
- DS3841 - Mgmt Information Systems

Actual Credits 3

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring	15

Requirement Select
- DS3520 - DS 3520: Operations and Supply Chain Management

Actual Credits 3

Requirement Select
- DS4230 - Introduction to Generative AI

Actual Credits 3

Requirement Select
- DS3860 - Business Database Mgmt

Actual Credits 3

Requirement Select
- BMGT3720 - Business Communications I

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Fall	15

Requirement Select
- DS4210 - Business Intelligence

Actual Credits 3

Requirement Select
- DS4220 - Advanced Business Analytics

Actual Credits 3

Requirement Select
- Directed Business Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- DSELEC - DS Elective

Actual Credits 3

Requirement Select
- Elective (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	15

Requirement Select
- BMGT4930 - Business Strategy

Actual Credits 3

Requirement Select
- DS4510 - Business AI & Analytics Capstone

Actual Credits 3

Requirement Select
- Directed Business Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- DS4240 - Applied AI

Actual Credits 3

BINT-BSBA - Business Information and Technology, B.S.B.A.

Program Overview

Program Long Title
Business Information and Technology, B.S.B.A.

College/School
Business

Department(s)
Decision Science/Management

Requirements

Simple Requirements

Business and Information Technology, B.S.B.A. (120 hours)

Type
Completion Requirement

Flight Foundations - Communication (9 hours)

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

General Education Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

College of Business majors meet the Social/Behavioral Science requirement with ECON2010 and ECON2020.

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

NOTE: BIOL 1080, CHEM 1310, GEOL 1070 and PHYS 1310 are also university approved science courses. However, they are better suited to other majors since they are 3-credit hour classes instead of 4 credits.

Business and Information Technology, B.S.B.A. Core

Complete ALL of the following Courses:
- ACCT2110 - Principles of Accounting I
- ACCT2120 - Principles of Accounting II
- DS2810 - DS 2810: Computer Applications in Organizations
- BMGT3510 - Mgmt/Organizational Behavior
- BMGT3720 - Business Communications I
- BMGT4930 - Business Strategy
- DS3520 - DS 3520: Operations and Supply Chain Management
- DS3620 - Bus Anyltcs:Data Drv Dec Makng
- DS3810 - Prog Logic & Analytic Thinking
- DS3841 - Mgmt Information Systems
- DS3850 - Business Applications Develop
- DS3860 - Business Database Mgmt
- DS3870 - Business Applications Dev II
- DS4250 - Business Data Communications
- DS4330 - Information Systems Analysis and Design
- DS4550 - Info Systems Devlopment Pract
- ECON3610 - Business Statistics I
- FIN3210 - Principles/Managerial Fin
- LAW2810 - Business Legal Env & Ethics
- MKT3400 - Principles of Marketing

Additional Requirements:

DS Electives (6 cr.)

Business Electives (6 cr.)

- Elective courses are to be selected in consultation with the academic advisor.

Additional Program Requirements

Complete ALL of the following Courses:
- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- MATH1530 - Introductory Statistics
- MATH1710 - Pre-Calculus Algebra
- UBUS1020 - Success Skills-Bus Studies
- ELECTIVE - Elective Credit

Note:

Additional free electives (6 hours) are required to complete 120 earned hours.

Elective courses are to be selected in consultation with the academic advisor.

Flight Foundation - 4 flexible credits

Flight Foundation Flexible Electives (4 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy.

Degree Map

Degree Map Name
Business and Information Technology, B.S.B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	Fall	14

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Requirement Select
- UBUS1020 - Success Skills-Bus Studies

Actual Credits 1

Requirement Select
- DS2810 - DS 2810: Computer Applications in Organizations

Actual Credits 3

Requirement Select
- Flight Foundations Flexible Elective (1 cr.) (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Spring	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Flight Foundation Flexible Elective (3 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy. (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Fall	16

Requirement Select
- ACCT2110 - Principles of Accounting I

Actual Credits 3

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Spring	15

Requirement Select
- ACCT2120 - Principles of Accounting II

Actual Credits 3

Requirement Select
- ECON3610 - Business Statistics I

Actual Credits 3

Requirement Select
- DS3810 - Prog Logic & Analytic Thinking

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Fall	15

Requirement Select
- DS3850 - Business Applications Develop

Actual Credits 3

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- DS3620 - Bus Anyltcs:Data Drv Dec Makng

Actual Credits 3

Requirement Select
- DS3841 - Mgmt Information Systems

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring	15

Requirement Select
- BMGT3720 - Business Communications I

Actual Credits 3

Requirement Select
- DS elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- DS3520 - DS 3520: Operations and Supply Chain Management

Actual Credits 3

Requirement Select
- DS3860 - Business Database Mgmt

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Fall	15

Requirement Select
- DS4330 - Information Systems Analysis and Design

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- DS elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- DS3870 - Business Applications Dev II

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	15

Requirement Select
- BMGT4930 - Business Strategy

Actual Credits 3

Requirement Select
- DS4250 - Business Data Communications

Actual Credits 3

Requirement Select
- DS4550 - Info Systems Devlopment Pract

Actual Credits 3

Requirement Select
- Business electives (6 cr.)
  (Generic)

Actual Credits 6

BITA-MIN - Business Information Technology and Analytics Minor

Program Overview

Program Long Title
Business Information Technology and Analytics Minor

College/School
Business

Department(s)
Decision Science/Management

Requirements

Simple Requirements

Business Information Technology and Analytics Minor (18 hours)

Type
Completion Requirement

Business Information Technology and Analytics (BITA) Minor

A minor in Business Information Technology and Analytics consists of 18 hours from:

- DS 3620 - Business Analytics: Data Driven Decision Making
- DS 3810 - Intro to Programming Logic & Analytical Thinking
- DS 3850 - Business Applications Development
- DS 3860 - Business Database Management

and two classes from:

- DS 3870 - Business Applications Development II
- DS 4125 - Computer Forensics and Investigations
- DS 4210 - Business Intelligence
- DS 4220 - Advanced Business Analytics
- DS 4250 - Business Data Communications
- DS 4330 (5330) - Management Information Systems Analysis and Design

BMGT-BUHR - Business Management, Human Resource Management Concentration, B.S.B.A.

Program Overview

Program Long Title
Business Management, Human Resource Management Concentration, B.S.B.A.

College/School
Business

Department(s)
Decision Science/Management

Requirements

Simple Requirements

Business Management, Human Resource Management Concentration (120 hours)

Type
Completion Requirement

Flight Foundation - Written Communication (6 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

College of Business majors meet the Social/Behavioral Science requirement with ECON2010 and ECON2020.

Scientific Reasoning (4 cr.)

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

Business Management, Human Resource Management Concentration Core

Complete ALL of the following Courses:

- ACCT2110 - Principles of Accounting I
- ACCT2120 - Principles of Accounting II
- DS2810 - DS 2810: Computer Applications in Organizations
- BMGT3510 - Mgmt/Organizational Behavior
- BMGT3630 - Human Resource Management
- BMGT3720 - Business Communications I
- BMGT4100 - Staffing
- BMGT4120 - Compensation Administration
- BMGT4150 - Employment & Labor Law
- BMGT4610 - Training and Development
- BMGT4930 - Business Strategy
- DS3520 - DS 3520: Operations and Supply Chain Management
- DS3620 - Bus Anyltcs:Data Drv Dec Makng
- DS3841 - Mgmt Information Systems
- ECON3610 - Business Statistics I
- FIN3210 - Principles/Managerial Fin
- LAW2810 - Business Legal Env & Ethics
- MKT3400 - Principles of Marketing

Business Management, Human Resource Management Concentration Core

BMGT Electives (6 hours):

Complete six hours of BMGT upper division (3000-4000 level) electives.

Business Electives (9 hours):

Complete nine hours of business electives.

Elective courses are to be selected in consultation with the academic advisor.

Additional Program Requirements

Complete ALL of the following Courses:

- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- MATH1530 - Introductory Statistics
- MATH1710 - Pre-Calculus Algebra
- UBUS1020 - Success Skills-Bus Studies

Elective Credits

Electives (9 hours)
Additional free electives are required to complete 120 earned hours.

Elective courses are to be selected in consultation with the academic advisor.

Flight Foundation Flexible Electives (4 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial Literacy or Digital Literacy.

Oral Communication (3 cr.)

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication

Degree Map

Degree Map Name
Degree Plan - Business Management, Human Resource Management Concentration, B.S.B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- DS2810 - DS 2810: Computer Applications in Organizations

Actual Credits 3

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Requirement Select

- UBUS1020 - Success Skills-Bus Studies

Actual Credits 1

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- Flight Foundations Flexible Elective (1 cr.) (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Flight Foundation Flexible Elective (3 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial Literacy or Digital Literacy (Generic)

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- ACCT2110 - Principles of Accounting I

Actual Credits 3

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ACCT2120 - Principles of Accounting II

Actual Credits 3

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- ECON3610 - Business Statistics I

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- DS3620 - Bus Anyltcs:Data Drv Dec Makng

Actual Credits 3

Requirement Select
- DS3841 - Mgmt Information Systems

Actual Credits 3

Requirement Select
- Business elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- BMGT3630 - Human Resource Management

Actual Credits 3

Requirement Select
- BMGT electives (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- DS3520 - DS 3520: Operations and Supply Chain Management

Actual Credits 3

Requirement Select
- BMGT3720 - Business Communications I

Actual Credits 3

Requirement Select
- Business elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- BMGT4120 - Compensation Administration

Actual Credits 3

Requirement Select
- BMGT4610 - Training and Development

Actual Credits 3

Requirement Select
- BMGT elective (3 cr)
  (Generic)

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- BMGT4100 - Staffing

Actual Credits 3

Requirement Select
- BMGT4150 - Employment & Labor Law

Actual Credits 3

Requirement Select
- BMGT4930 - Business Strategy

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Business electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective courses are to be selected in consultation with the academic advisor.
  (Generic)

Actual Credits -

BMGT-BUMA - Business Management, General Management Concentration, B.S.B.A.

Program Overview

Program Long Title
Business Management, General Management Concentration, B.S.B.A.

College/School
Business

Department(s)
Decision Science/Management

Requirements

Simple Requirements

Business Management, General Management Concentration (120 hours)

Type
Completion Requirement

Flight Foundation - Written Communication (6 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

General Education Core - American History (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundation Core - Financial or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

College of Business majors meet the Social/Behavioral Science requirement with ECON2010 and ECON2020.

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

NOTE: BIOL 1080, CHEM 1310, GEOL 1070 and PHYS 1310 are also university approved science courses. However, they are better suited to other majors since they are 3-credit hour classes instead of 4 credits.

Business Management, General Management Concentration Core

Complete ALL of the following Courses:
- ACCT2110 - Principles of Accounting I
- ACCT2120 - Principles of Accounting II
- DS2810 - DS 2810: Computer Applications in Organizations
- BMGT3510 - Mgmt/Organizational Behavior
- BMGT3600 - International Management
- BMGT3630 - Human Resource Management
- BMGT3720 - Business Communications I
- BMGT4520 - Organizational Leadership
- BMGT4930 - Business Strategy
- DS3520 - DS 3520: Operations and Supply Chain Management
- DS3620 - Bus Anyltcs:Data Drv Dec Makng
- DS3841 - Mgmt Information Systems
- ECON3610 - Business Statistics I
- FIN3210 - Principles/Managerial Fin
- LAW2810 - Business Legal Env & Ethics
- MKT3400 - Principles of Marketing

Business Management, General Management Concentration Core

BMGT Electives (9 hours):

Complete nine hours of BMGT upper division (3000-4000 level) electives.

Business Electives (9 hours):

Complete nine hours of business electives.

Elective courses are to be selected in consultation with the academic advisor.

Additional Program Requirements

Complete ALL of the following Courses:
- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- MATH1530 - Introductory Statistics
- MATH1710 - Pre-Calculus Algebra
- UBUS1020 - Success Skills-Bus Studies

Elective Credits

Electives (12 hours)
Additional free electives are required to complete 120 earned hours.

Elective courses are to be selected in consultation with the academic advisor.

Flight Foundation Flexible Electives (4 credits): choose from

Humanities and Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy.

Oral Communication (3 cr.)

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication

Degree Map

Degree Map Name
Degree Plan - Business Management, General Management Concentration, B.S.B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- DS2810 - DS 2810: Computer Applications in Organizations

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Requirement Select
- UBUS1020 - Success Skills-Bus Studies

Actual Credits 1

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Flight Foundation Flexible elective (1 cr.) from Humanities and Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- Flight Foundations Flexible Elective (3 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy.
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- ACCT2110 - Principles of Accounting I

Actual Credits 3

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ACCT2120 - Principles of Accounting II

Actual Credits 3

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- ECON3610 - Business Statistics I

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- DS3620 - Bus Anyltcs:Data Drv Dec Makng

Actual Credits 3

Requirement Select
- DS3841 - Mgmt Information Systems

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Business elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- BMGT3600 - International Management

Actual Credits 3

Requirement Select
- BMGT3630 - Human Resource Management

Actual Credits 3

Requirement Select
- Business elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- DS3520 - DS 3520: Operations and Supply Chain Management

Actual Credits 3

Requirement Select
- BMGT3720 - Business Communications I

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- BMGT4520 - Organizational Leadership

Actual Credits 3

Requirement Select
- Business elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- BMGT elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- BMGT4930 - Business Strategy

Actual Credits 3

Requirement Select
- BMGT electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- 1 Elective courses are to be selected in consultation with the academic advisor.
  (Generic)

Actual Credits -

BMGT-MIN - Business Management Minor

Program Overview

Program Long Title
Business Management Minor

College/School
Business

Department(s)
Decision Science/Management

Requirements

Simple Requirements

Business Management Minor

Type
Completion Requirement

Business Management (BMGT) Minor

A minor in Business Management consists of 15 hours:

BMGT 3510

and four classes from:

- BMGT 3525 - Internship in Management
- BMGT 3600 - International Management
- BMGT 3630 - Human Resource Management
- BMGT 3720 - Business Communication I
- BMGT 4410 (5410) - Conflict Management and Negotiation
- BMGT 4520 (5520) - Organizational Leadership

BMGT-OSM - Business Management, Operations and Supply Chain Management Concentration, B.S.B.A.

Program Overview

Program Long Title
Business Management, Operations and Supply Chain Management Concentration, B.S.B.A.

College/School
Business

Department(s)
Decision Science/Management

Requirements

Simple Requirements

Business Management, Operations and Supply Chain Management Concentration (120 hours)

Type
Completion Requirement

Flight Foundation - Written Communication (6 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

College of Business majors meet the Social/Behavioral Science requirement with ECON2010 and ECON2020.

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

NOTE: BIOL 1080, CHEM 1310, GEOL 1070 and PHYS 1310 are also university approved science courses. However, they are better suited to other majors since they are 3-credit hour classes instead of 4 credits.

Business Management, Operations and Supply Chain Management Concentration Core

Complete ALL of the following Courses:

- ACCT2110 - Principles of Accounting I
- ACCT2120 - Principles of Accounting II
- ACCT3210 - Cost Accounting
- DS2810 - DS 2810: Computer Applications in Organizations
- BMGT3510 - Mgmt/Organizational Behavior
- BMGT3630 - Human Resource Management
- BMGT3720 - Business Communications I
- BMGT4410 - Conflict Mgmt & Negotiation
- BMGT4930 - Business Strategy
- DS3520 - DS 3520: Operations and Supply Chain Management
- DS3530 - DS: 3530: Advanced Operations and Supply Chain Management
- DS3620 - Bus Anyltcs:Data Drv Dec Makng
- DS3841 - Mgmt Information Systems
- DS3540 - Quality/Productivity Systems
- DS4530 - DS 4530: Operations and Supply Chain Management Capstone
- ECON3610 - Business Statistics I
- FIN3210 - Principles/Managerial Fin
- LAW2810 - Business Legal Env & Ethics
- MKT3400 - Principles of Marketing

Business Management, Operations and Supply Chain Management Concentration Core

BMGT, DS, or MET Electives (6 hours):

Complete six hours of BMGT or DS upper division (3000-4000 level) electives or MET electives (any level).

Business Electives (6 hours):

Complete six hours of business electives.

Elective courses are to be selected in consultation with the academic advisor.

Additional Program Requirements

Complete ALL of the following Courses:

- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- MATH1530 - Introductory Statistics
- MATH1710 - Pre-Calculus Algebra
- UBUS1020 - Success Skills-Bus Studies

Elective Credits

Electives (9 hours)
Additional free electives are required to complete 120 earned hours.

Elective courses are to be selected in consultation with the academic advisor.

Flight Foundations Flexible Electives (4 cr.)

Flight Foundation Flexible electives (4 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial Literacy or Digital Literacy.

Oral Communication (3 cr.)

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication

Degree Map

Degree Map Name
Degree Plan - Business Management, Operations and Supply Chain Management Concentration, B.S.B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- DS2810 - DS 2810: Computer Applications in Organizations

Actual Credits 3

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Requirement Select

- UBUS1020 - Success Skills-Bus Studies

Actual Credits 1

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Flight Foundation Flexible Elective (1 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial Literacy or Digital Literacy. (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- Flight Foundation Flexible Elective (3 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial Literacy or Digital Literacy. (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- ACCT2110 - Principles of Accounting I

Actual Credits 3

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ACCT2120 - Principles of Accounting II

Actual Credits 3

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- ECON3610 - Business Statistics I

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- ACCT3210 - Cost Accounting

Actual Credits 3

Requirement Select
- DS3841 - Mgmt Information Systems

Actual Credits 3

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- DS3520 - DS 3520: Operations and Supply Chain Management

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- BMGT3630 - Human Resource Management

Actual Credits 3

Requirement Select
- Business electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- DS3620 - Bus Anyltcs:Data Drv Dec Makng

Actual Credits 3

Requirement Select
- BMGT3720 - Business Communications I

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- DS3540 - Quality/Productivity Systems

Actual Credits 3

Requirement Select
- DS/BMGT/MET elective (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- BMGT4410 - Conflict Mgmt & Negotiation

Actual Credits 3

Requirement Select
- BMGT4930 - Business Strategy

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- DS3530 - DS: 3530: Advanced Operations and Supply Chain Management

Actual Credits 3

Requirement Select
- DS4530 - DS 4530: Operations and Supply Chain Management Capstone

Actual Credits 3

Requirement Select
- Elective courses are to be selected in consultation with the academic advisor.
  (Generic)

Actual Credits -

HR-MIN - Human Resource Management Minor

Program Overview

Program Long Title
Human Resource Management Minor

College/School
Business

Department(s)
Decision Science/Management

Requirements

Simple Requirements

Human Resource Management Minor

Type
Completion Requirement

Human Resource Management (HR) Minor

The minor in Human Resource Management consists of 15 credit hours:

- BMGT 3510 - Management and Organization Behavior
- BMGT 3630 - Human Resource Management

and three classes from:

- BMGT 3525 - Internship in Management
- BMGT 4100 - Staffing BMGT 4120 (5120) - Compensation Administration
- BMGT 4150 - Employment and Labor Law
- BMGT 4610 - Training and Development

IB-MIN - International Business Minor

Program Overview

Program Long Title
International Business Minor

College/School
Business

Department(s)
Decision Science/Management

Requirements

Simple Requirements

International Business Minor

Type
Completion Requirement

International Business (IB) Minor

A minor in International Business may earned by completing 15 hours from the following courses:

9 hours from:

- BMGT 3600 – International Management (3)
- ECON 4510/FIN 4510 – International Trade and Finance (3)
- FIN 4910 – Multinational Financial Management (3)
- MKT 4100 – International Marketing (3)
- ACCT 4700 – International Experiences in Accounting (3)
- ECON 4520 – Comparative Economic Systems (3)

6 hours from:

- Any approved Humanities/Fine Arts course from the TTU General Education Core list except ENGL 2130
- ART 2000 – Art History Survey I (3)
- ART 2020 – Art History Survey II (3)
- COMM 3620 – Intercultural Communication (3)
- GEOG 1012- Cultural Geography (3)
- MUS 2030 – World Music (3)
- POLS 3670- Foreign Policy (3)
- POLS 3310- Politics of Developing Nations (3)
- POLS 3650 - International Organizations (3)
- POLS 4100- International Law (3)
- SOC 4090- Cross Cult Comm/Cult Diversity (3)
- **OR**
- Foreign Language courses (6 hours of the same language): SPAN 1010/1020, GERM 1010/1020, FREN 1010/1020.
- **OR**
- ·Study Abroad (6 hours)

OLSM-MIN - Operations, Logistics and Supply Chain Management Minor

Program Overview

Program Long Title
Operations, Logistics and Supply Chain Management Minor

College/School
Business

Department(s)
Decision Science/Management

Requirements

Simple Requirements

Operations, Logistics and Supply Chain Management Minor

Type
Completion Requirement

Operations, Logistics and Supply Chain Management (OLSM) Minor

A minor in Operations, Logistics, and Supply Chain Management may earned by completing 15 hours from the following courses:

Required:

- DS 3520 – Operations, Logistics, & SCM (3)
- DS 3530 – Advanced Op, Logistics & SCM (3))

3 classes from:

- ACCT 3210 Cost Accounting (3)
- DS 3540 Quality and Productivity Systems (3)
- DS 4530 Operations, Logistics, & SCM (3)
- BMGT 3630 Human Resource Management (3)
- DS 3400 Internship: Op, Logistics & SCM (3)
- MET 4650 Lean Six Sigma Manufacturing (3)

Courses

Course Information

Course Title
Mgmt/Organizational Behavior

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
3510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing. Management functions and processes as applied to organizations with special emphasis on the behavioral aspects.

College/School
Business

Requisites and Restrictions

Prerequisite:
Sophomore standing.

Course Information

Course Title
International Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
3600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BMGT 3510 and Junior standing. Explore organization and management issues in international business.

College/School
Business

Requisites and Restrictions

Prerequisite:
BMGT 3510 and Junior standing.

Course Information

Course Title
Internship in Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
3525

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of Management Internship Coordinator or Department Chairperson. A directed professional experience in the field of Management. Junior or Senior Standing Required.

College/School
Business

Requisites and Restrictions

Prerequisite:
Consent of Management Internship Coordinator or Department Chairperson.

Course Information

Course Title
Human Resource Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
3630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BMGT 3510 and Junior standing. Personnel management policies, practices, and laws.

College/School
Business

Requisites and Restrictions

Prerequisite:
BMGT 3510 and Junior standing.

Course Information

Course Title
Business Communications I

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
3720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing. Principles and practices in developing appropriate business messages that report primary and secondary research in a variety of styles.

College/School
Business

Requisites and Restrictions

Prerequisite:
Sophomore standing.

Course Information

Course Title
Staffing

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: BMGT3630. This course will focus on the recruitment, selection, and retention of human resources within organizations. Students will learn methods and processes by which organizations plan for their staffing needs, recruit applicants, select new employees, and socialize new employees. Students will also learn how the staffing function influences organizational performance and how the staffing function is influenced by the legal, social, organizational, and technological environments in which staffing decisions are made.

College/School
Business

Requisites and Restrictions

Prerequisite:
BMGT 3630.

Course Information

Course Title
Compensation Administration

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BMGT 3630. Theory and practice of determining wages, salaries, and employee benefits.

College/School
Business

Requisites and Restrictions

Prerequisite:
BMGT 3630.

Course Information

Course Title
Conflict Mgmt & Negotiation

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
4410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing. Development of interpersonal skills for managing conflict and negotiations in business.

College/School
Business

Requisites and Restrictions

Prerequisite:
Junior standing.

Course Information

Course Title
Employment & Labor Law

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
4150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: BMGT3630. An overview of legal issues affecting the employment relationship in business, from a managerial perspective.

College/School
Business

Requisites and Restrictions

Prerequisite:
BMGT 3630.

Course Information

Course Title
Organizational Leadership

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
4520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BMGT 3510 and Junior standing. An examination of behavioral concepts required for effective leadership within business organizations.

College/School
Business

Requisites and Restrictions

Prerequisite:
BMGT 3510 and Junior standing.

Course Information

Course Title
Training and Development

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
4610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BMGT 3510 and Junior standing. Development of skills in employee development and training in a wide range of business contexts.

College/School
Business

Requisites and Restrictions

Prerequisite:
BMGT 3510 and Junior standing.

Course Information

Course Title
Business Communication II

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
4720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BMGT 3720. Analyzing and presenting solutions for cases and problems involving business transactions.

College/School
Business

Requisites and Restrictions

Prerequisite:
BMGT 3720.

Course Information

Course Title
Spec Topics in Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
4900

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Consent of instructor. Current topics in management.

College/School
Business

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Business Strategy

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
4930

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: BMGT 3510, FIN 3210 and MKT 3400, Prerequisite or corequisite: DS 3520. A capstone course stressing management problem analysis, problem solving, and decision-making. This course is designed to be taken during semester of graduation.

College/School
Business

Requisites and Restrictions

Prerequisite:
BMGT 3510, FIN 3210 and MKT 3400 and Senior Standing.

Prerequisite or corequisite:
DS 3520.

Governors School - Technological Innovation and Business Leadership

Course Information

Course Title
Gov's School/Tech & Business

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
1810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Enrollment is restricted to Governor's School for IT Leadership participants. Develop an appreciation of how a business is established and how a business uses innovation to grow and sustain that business.

College/School
Business

Requisites and Restrictions

Prerequisite:
Enrollment is restricted to Governor's School for IT Leadership participants.

DS 2810: Computer Applications in Organizations

Course Information

Course Title
Computer Applications in Orgs

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
2810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Applications of computer technology to solve real-world organizational problems. Emphasis is placed on developing practical digital skills for effective communication and productivity.

College/School
Business

Requisites and Restrictions

Note:
(INFS 1010, TTP Course)

Course Information

Course Title
Internship: Op, Logist., & SCM

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: DS 3520 or consent of Department Chairperson. A directed professional experience in the field of Operations, Logistics, and/or Supply Chain Management.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3520 and consent of Department Chairperson.

Course Information

Course Title
Internship/Bus & Info Tech

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of BIT Internship Coordinator or Department Chairperson. A directed professional experience in the field of Business and Information Technology. Junior or Senior Standing Required.

College/School
Business

Requisites and Restrictions

Prerequisite:
Consent of BIT Internship Coordinator or Department Chairperson.

Course Information

Course Title
Intrship/Bus Intel & Analytics

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3515

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of BIA Internship Coordinator or Department Chairperson. A directed professional experience in the field of Business Intelligence and Analytics. Junior or Senior Standing Required.

College/School
Business

Requisites and Restrictions

Prerequisite:
Consent of BIA Internship Coordinator or Department Chairperson.

DS 3520: Operations and Supply Chain Management

Course Information

Course Title
Operations & Supply Chain Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course is an introductory survey of the basic concepts and principles of the management of operations, supply chain, and logistics. It covers the management of the processes, resources, and technologies in the production, transportation, and distribution of goods and services.

College/School
Business

DS: 3530: Advanced Operations and Supply Chain Management

Course Information

Course Title
Advanced Operations & SCM

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: DS 3520. This course will build upon the foundations and the basic concepts from the introductory DS 3520 course. The advanced topics that will be covered in this course include operations and supply chain strategies and the design, modeling, simulation, and optimization of the transportation and distribution networks.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3520.

Course Information

Course Title
Quality/Productivity Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3540

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: DS 3520 or consent of instructor. Contemporary issues in quality and productivity management are examined.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3520 or consent of instructor.

Course Information

Course Title
Bus Anyltcs:Data Drv Dec Makng

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: DS 2810, ECON 3610, and Junior standing. Business Analytics is the use of data and quantitative methods to help managers gain insight about business operations. This course will provide the fundamental concepts and tools needed to understand the role of business analytics in organizations.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 2810, ECON 3610, and Junior standing.

Course Information

Course Title
Prog Logic & Analytic Thinking

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: DS 2810 or consent of instructor. Introduction to programming using analytical thinking.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 2810 or consent of instructor. Introduction to logical programming using analytical thinking.

Course Information

Course Title
Mgmt Information Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3841

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: DS 2810 and Sophomore standing. Management information needs and the technical, economic, and organizational impacts of these needs.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 2810 and Sophomore standing.

Course Information

Course Title
Business Applications Develop

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3850

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: DS 3810 and Junior standing. Introduction to development of business applications using system development tools.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 2810 and Junior standing.

Course Information

Course Title
Business Database Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3860

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: DS 3810 and Junior standing. Concepts of designing and managing databases in a business environment with emphasis on database design, and normalization.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 2810 and Junior standing.

Course Information

Course Title
Business Database Mgmt 2

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3865

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prererequisite: DS 3860 or consent of instructor. Developing database systems using Structured Query Language (SQL)

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3860 or consent of instructor.

Course Information

Course Title
Business Applications Dev II

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
3870

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: DS 3850. Advanced use of system development tools with an emphasis on cloud services.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3850.

Course Information

Course Title
Decision Support Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: DS 3860 or consent of instructor. A current study of DSS concepts, designs, methodologies and business applications, including expert systems.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3860 or consent of instructor.

Course Information

Course Title
Comp Forensics/Investigations

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4125

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing or consent of instructor. Investigation, discovery, and analysis of digital computer evidence. Student work groups use computer hardware and forensic software to perform computer forensic investigations and solve sample cases. Students are introduced to and work with numerous computer forensic tools.

College/School
Business

Requisites and Restrictions

Prerequisite:
Junior standing or consent of instructor.

Course Information

Course Title
Business Intelligence

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: DS 3620. Business Intelligence (BI) is the process of collecting data from a variety of sources and providing it to decision-makers in a form that enhances business value. This course will provide an understanding of data organization, BI processes and techniques, and how to transform data to support business decision-making.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3620.

Course Information

Course Title
Advanced Business Analytics

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite DS 3620, DS 3850, and DS 3860. This course provides an in-depth examination of the benefits and challenges of implementing analytics in a business environment. It also covers advanced topics in data analysis that will assist managers in making better decisions.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3620.

Course Information

Course Title
Introduction to Generative AI

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: DS 3810 and Junior or Senior standing. An analytical approach to the principles and applications of generative artificial intelligence. Students will use modern AI tools and prompt engineering to solve problems while analyzing the technology's societal and ethical impacts.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3810 and Junior or Senior standing

Applied AI

Course Information

Course Title
Applied AI

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4240

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: DS 4230 and Junior or Senior standing. A project-based approach to business applications of generative artificial intelligence. Foundational models, workflow automation tools, and AI agents are used to build applications and automate organizational tasks.

College/School
Business

Syllabus
DS 4240-Applied AI.pdf

Course Information

Course Title
Business Data Communications

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: DS 3810 and Junior standing. Concepts of data and voice communication networks for supporting business activities to include the OSI model, local and wide area networks, network security, and network management.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 2810 and Junior standing.

Course Information

Course Title
Network Security and Forensics

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4260

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: DS 4250 or consent of instructor. Concepts of network security measures aimed at preventing unwanted access to a network and network forensics aimed at capturing and inspecting network traffic for later analysis.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 4250 or consent of instructor.

Information Systems Analysis and Design

Course Information

Course Title
Info System Analysis & Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4330

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: DS 3860. Prerequisite or corequisite: DS 3870. An applications-oriented study of the business system development life cycle, current system analysis, and design method.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3860

Prerequisite or corequisite:
DS 3870.

Business AI & Analytics Capstone

Course Information

Course Title
Bus AI & Analytics Capstone

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: DS 4210, DS 4220, and DS 4240. This course brings together the foundations of business AI and analytics using a wide array of techniques to solve real-world business problems and support business decision-making.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 4210, DS 4220, and DS 4240

DS 4530: Operations and Supply Chain Management Capstone

Course Information

Course Title
Operations & SCM Capstone

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: DS 3540. Co-requisite: DS 3530. This course provides an experiential learning opportunity for students to apply the concepts, tools, and techniques used in operations and supply chain management to real-life organizational situations. Students will complete projects under the supervision of a faculty advisor and make a presentation to organizational representatives.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3540.

Prerequisite or corequisite:
DS 3530.

Course Information

Course Title
Info Systems Devlopment Pract

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: DS 3870 and DS 4330 (5330). Corequisite: DS 4250. Students develop their knowledge and skills in planning, analyzing, designing, and implementing real-world information systems.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3870 and DS 4330 (5330).

Corequisite:
DS 4250.

Course Information

Course Title
Adv Quantitative Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: DS 3620. Advanced applications of quantitative methods, including forecasting and management science concepts.

College/School
Business

Requisites and Restrictions

Prerequisite:
DS 3620.

Course Information

Course Title
Spec Top: Decision Sciences

Academic Level (Course Level)
Undergraduate

Course Subject Code
DS

Course Number
4900

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Current topics in Decision Sciences.

College/School
Business

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Gov Sch/Innovtn & Entrprship

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENTR

Course Number
1810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Enrollment is restricted to Governor's School for Innovation and Entrepreneurship participants. The course will introduce students to the principles, problems, and practices in business leadership. The focus of the class will be on the students developing a business plan for a company.

College/School
Business

Requisites and Restrictions

Prerequisite:
Enrollment is restricted to Governor's School for Innovation and Entrepreneurship participants.

Course Information

Course Title
Innvtn/Entrprshp:Lean Lnchpad

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENTR

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Students must have junior or senior standing or approval of the instructor. Lean Launchpad focuses on innovating and evolving a product or service into a viable business model. The curriculum is structured around the Lean Launchpad program where student teams organize and develop their “business canvas.” Enrollment in junior-or senior-level ENTR courses requires junior standing. All business majors must have completed the Basic Business Program.

College/School
Business

Requisites and Restrictions

Prerequisite:
Students must have Junior or Senior standing or approval of the instructor.

Earth Sciences Department

Professor Li, Chairperson; Professors Harrison, Hart, Luna; Associate Professors Asante, Michel; Assistant Professor Bhattacharya

The mission of the Department of Earth Sciences is threefold:

1. To provide a robust undergraduate learning and research experience for geoscience students.
2. To demonstrate the importance of the geosciences to society.
3. To promote faculty research, scholarly activity and interdisciplinary collaboration.

Our department mission supports the overall missions of the University and the College of Arts and Sciences.

Programs

ENS-MIN - Environmental Studies Minor

Program Overview

Program Long Title
Environmental Studies Minor

College/School
Arts and Sciences

Department(s)
Earth Sciences

Requirements

Simple Requirements

Environmental Studies Minor

Type
Completion Requirement

Environmental Studies (ENS) Minor

A minor in Environmental Studies will consist of at least 15 hours of coursework, with a minimum of 6 upper division hours, including the following:

(a) HIST 2900 Environmental History;

(b) One of the following: SOC 3600 - Environmental Sociology or AGBE 4120 (5120) ;

(c) 9 additional semester hours chosen from the course list below, including at least: one course at the 3000- 4000 level and two of the following areas of study:

Agriculture, Biology, Chemistry, Geography, Geology, and Sociology (note: WFS is considered to be Biology). AGET 3110 - Natural Resource Systems Credit: 2. AGRN 1100 - Plant Science Credit: 3. AGRN 1110 - Plant Science Laboratory Credit: 1. AGRN 3230 - Environmental Soil Science Credit: 4. AGRN 4220 (5220) - Environmental Soil Chemistry Credit: 3. AGRN 4230 (5230) - Soil Classification Credit: 3. BIOL 3120 - General Ecology Credit: 3. or BIOL 3130 - General Ecology Credit: 4. or WFS 3130 - General Ecology Credit: 4. BIOL 4130 (5130) - Environmental Microbiology Credit: 3. BIOL 4610 (5610) - Invertebrate Zoology Credit: 3. BIOL 4840 (5840) - Limnology Credit: 3. ESS 3710 - Chemistry and the Environment Credit: 3. CHEM 4710 (5710) - Environmental Chemistry Credit: 3. ENGL 4931 (5931) - Literature and the Environment Credit: 3. GEOG 1010 - Weather and Climate Credit: 3. GEOG 3330 - Meteorology Credit: 4. GEOL 4100 - Environmental Sedimentology Credit: 4. GEOL 4150 (5150) - Geomorphology Credit: 4. GEOL 4410 (5410) - Remote Sensing Credit: 3. GEOL 4650 (5650) - Applied Geochemistry Credit: 3. GEOL 4711 (5711) - Hydrogeology Credit: 4. SOC 3600 - Environmental Sociology Credit: 3. WFS 4500 (5500) - National Wildlife Policy Credit: 3

Preparation:

Students wishing to minor in Environmental Studies must fulfill their general education science requirement by taking any two of the following courses: BIOL 1010 - Introduction to Biology Credit: 4. BIOL 1020 - Diversity of Life Credit: 4. BIOL 1123 - General Biology II Credit: 4. BIOL 2310 - General Botany Credit: 4. CHEM 1010 - Introductory Chemistry I Credit: 4. CHEM 1020 - Introductory Chemistry II Credit: 4. CHEM 1110 - General Chemistry I Credit: 4. CHEM 1120 - General Chemistry II Credit: 4. GEOL 1040 - Physical Geology Credit: 4. GEOL 1045 - Earth Environment, Resources and Society Credit: 4.

Note:

Except for Biology majors, students who did not take BIOL 1010-BIOL 1020 under “Preparation” must take BIOL 3120 or BIOL 3130/WFS 3130 as part of the “9 additional hours.”

GEOG-MIN - Geography Minor

Program Overview

Program Long Title
Geography Minor

College/School
Arts and Sciences

Department(s)
Earth Sciences

Requirements

Simple Requirements

Minor in Geography (GEOG)

A minor in Geography consists of 15 hours in GEOG courses (six hours must be at the 3000-4000 level).

GEOL-MIN - Geology Minor

Program Overview

Program Long Title
Geology Minor

College/School
Arts and Sciences

Department(s)
Earth Sciences

Requirements

Simple Requirements

Minor in Geology (GEOL)

A Geology minor consists of 15 hours in GEOL courses (six hours must be at the 3000-4000 level).

GEOS-EGEO - Geosciences, Environmental Geology Concentration, B.S.

Program Overview

Program Long Title
Geosciences, Environmental Geology Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Earth Sciences

Requirements

Simple Requirements

Geosciences, Environmental Geology Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundation Core - Financial or Digital Literacy (3 hours)

Complete ANY of the following Course Sets:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Geosciences, Environmental Geology Concentration Core

Complete ALL of the following Courses:
- GEOL1040 - Physical Geology
- GEOL1045 - Earth Environ Resrces Soc
  OR GEOG2100 - Weather and Climate Systems
- GEOL2600 - Geosciences Career Preparation
- GEOG4210 - Cartography
- GEOG4510 - Theory of GIS I
- GEOL4930 - Senior Thesis
- GEOL4931 - Senior Thesis

Geosciences, Environmental Geology Concentration Core - Required Electives

Complete at least 5 of the following courses:
- GEOG3200 - Water Resources
  OR GEOL3200 - Water Resources
- GEOL3830 - Field Geology
- GEOL4150 - Geomorphology
- GEOL4410 - Remote Sensing
- GEOG4711 - Hydrogeology
  OR GEOL4711 - Hydrogeology
- GEOG4650 - Environmental Apps of GIS

Required Environmental Geology Concentration Courses, any 5 of the following courses (17-18 hours) • GEOG 3200 - Water Resources Credit: 3. or • GEOL 3200 - Water Resources Credit: 3. • GEOL 3830 - Field Geology Credit: 4. • GEOG 4150 (5150) - Geomorphology Credit: 4. or • GEOL 4150 (5150) - Geomorphology Credit: 4. • GEOL 4410 (5410) - Remote Sensing Credit: 3. • GEOG 4711 (5711) - Hydrogeology Credit: 4. or • GEOL 4711 (5711) - Hydrogeology Credit: 4. • GEOG 4650 (5650) - Environmental Applications of GIS Credit: 3.

Geosciences, Environmental Geology Concentration Core - Directed Electives

Complete at least 4 of the following courses:
- AGRN2000 - Soil and the Environment
  OR AGRN3000 - Soils
- BIOL4610 - Invertebrate Zoology
- BIOL4840 - Limnology
  OR WFS4840 - Limnology
- CHEM3005 - Elementary Organic Chemistry
- CHEM3410 - Quantitative Analysis
- ESS3000 - Intro to Environmental Law
- ESS3710 - Chemistry and the Environment
- GEOL3550 - Paleoclimates
- GEOL4300 - Envrnmntl Aqueous Geochemistry
- WFS4500 - National Wildlife Policy

Environmental Concentration Directed Electives, any 4 of the following courses (12-16 hours) • AGRN 2000 - Soil and the Environment Credit: 3. or • AGRN 3000 - Soils Credit: 4. • BIOL 4610 (5610) - Invertebrate Zoology Credit: 3. • BIOL 4840 (5840) - Limnology Credit: 3. or

• WFS 4840 (5840) - Limnology Credit: 3. • CHEM 3005 - Elementary Organic Chemistry Credit: 4. • CHEM 3410 - Quantitative Analysis Credit: 4. • ESS 3000 - Introduction to Environmental Law Credit: 3. • ESS 3710 - Chemistry and the Environment Credit: 3. • GEOL 3550 - Paleoclimates Credit: 4. • GEOL 4300 (5300) - Environmental Aqueous Geochemistry Credit: 3. • WFS 4500 (5500) - National Wildlife Policy Credit: 3.

Additional Program Requirements

Select one group from:

BIOL1020 and BIOL3130 or

PHYS2010 and PHYS2020

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- MATH1710 - Pre-Calculus Algebra
  OR MATH1730 - Pre-Calculus Math
  OR MATH1910 - Calculus I
- MATH3070 - Statistical Methods I
- MATH1720 - Pre-calculus Trigonometry
  OR ELECTIVE - Elective Credit
- MSCI1020 - First Year Connections

Note:

1 This course (MSCI1020) is not included in 120-hour curriculum.

2 Take MATH 1710, MATH 1730 or MATH 1910

3 If MATH 1710 was taken, then take MATH 1720; otherwise take a free elective.

Elective Credits

Electives (8-11 hours)
Additional free electives are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Geosciences, Environmental Geology Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	18

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select
- MSCI1020 - First Year Connections

Actual Credits 1

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1730 - Pre-Calculus Math
  OR
- MATH1910 - Calculus I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- GEOL1045 - Earth Environ Resrces Soc
  OR
- GEOG2100 - Weather and Climate Systems

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- GEOG4510 - Theory of GIS I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I
  OR
- BIOL1020 - Diversity of Life

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	13

Requirement Select
- GEOL2600 - Geosciences Career Preparation

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II
  OR
- BIOL3130 - General Ecology

Actual Credits 4

Requirement Select
- GEOS/Environmental Geology - Required EGEO Courses

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- GEOS/Environmental Geology Directed Electives

Actual Credits 3

Requirement Select
- MATH 1720 or Free Elective
  (Generic)

Actual Credits 3

Requirement Select
- GEOS/Environmental Geology - Required EGEO Courses

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	12

Requirement Select
- GEOS/Environmental Geology Directed Electives

Actual Credits 3

Requirement Select
- GEOG4210 - Cartography

Actual Credits 3

Requirement Select
- GEOS/Environmental Geology - Required EGEO Courses

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	17

Requirement Select
- Free Electives
  (Generic)

Actual Credits 11

Requirement Select
- GEOL4930 - Senior Thesis

Actual Credits 3

Requirement Select
- GEOS/Environmental Geology - Required EGEO Courses

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- GEOS/Environmental Geology Directed Electives

Actual Credits 6

Requirement Select
- GEOL4931 - Senior Thesis

Actual Credits 3

Requirement Select
- GEOS/Environmental Geology - Required EGEO Courses

Actual Credits 3

Requirement Select

- If MATH 1710 was taken, then take MATH 1720; otherwise take a free elective
  (Generic)

Actual Credits 3

Requirement Select

- Required Environmental Geology Concentration Courses, any 5 of the following courses (17-18 hours) • GEOG 3200 - Water Resources Credit: 3. or • GEOL 3200 - Water Resources Credit: 3. • GEOL 3830 - Field Geology Credit: 4. • GEOG 4150 (5150) - Geomorphology Credit: 4. or • GEOL 4150 (5150) - Geomorphology Credit: 4. • GEOL 4410 (5410) - Remote Sensing Credit: 3. • GEOG 4711 (5711) - Hydrogeology Credit: 4. or • GEOL 4711 (5711) - Hydrogeology Credit: 4. • GEOG 4650 (5650) - Environmental Applications of GIS Credit: 3.
  (Generic)

Actual Credits -

Requirement Select

- Environmental Concentration Directed Electives, any 4 of the following courses (12-16 hours) • AGRN 2000 - Soil and the Environment Credit: 3. or • AGRN 3000 - Soils Credit: 4. • BIOL 4610 (5610) - Invertebrate Zoology Credit: 3. • BIOL 4840 (5840) - Limnology Credit: 3. or • WFS 4840 (5840) - Limnology Credit: 3. • CHEM 3005 - Elementary Organic Chemistry Credit: 4. • CHEM 3410 - Quantitative Analysis Credit: 4. • ESS 3000 - Introduction to Environmental Law Credit: 3. • ESS 3710 - Chemistry and the Environment Credit: 3. • GEOL 3550 - Paleoclimates Credit: 4. • GEOL 4300 (5300) - Environmental Aqueous Geochemistry Credit: 3. • WFS 4500 (5500) - National Wildlife Policy Credit: 3.
  (Generic)

Actual Credits -

GEOS-GDA - Geosciences, Geospatial Data Analysis Concentration, B.S.

Program Overview

Program Long Title

Geosciences, Geospatial Data Analysis Concentration, B.S.

College/School

Arts and Sciences

Department(s)

Earth Sciences

Requirements

Simple Requirements

Geosciences, Geospatial Data Analysis Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundation Core - Financial or Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Geosciences, Geographic Information Systems Concentration Core

Complete ALL of the following Courses:

- GEOL1040 - Physical Geology
- GEOL1045 - Earth Environ Resrces Soc
  OR GEOG2100 - Weather and Climate Systems
- GEOL2600 - Geosciences Career Preparation
- GEOG4210 - Cartography
- GEOG4510 - Theory of GIS I
- GEOL4930 - Senior Thesis
- GEOL4931 - Senior Thesis

Geosciences, Geospatial Data Analysis Concentration Core - Required Courses

Complete ALL of the following Courses:

- CSC1200 - Principles of Computing
  OR DS2810 - DS 2810: Computer Applications in Organizations
- GEOG4650 - Environmental Apps of GIS
- GEOG4850 - Advanced GIS
- GEOL4410 - Remote Sensing

Geospatial Data Analysis (GDA) Concentration Required Courses (12 hours) • CSC 1200 - Principles of Computing Credit: 3. or • DS 2810 - Computer Applications in Business Credit: 3. or • CITC 1300 Beginning HTML and CSS (TN eCampus) Credit: 3. • GEOG 4650 (5650) - Environmental Applications of GIS Credit: 3. • GEOG 4850 (5850) - Advanced GIS Credit: 3. • GEOL 4410 (5410) - Remote Sensing Credit: 3.

Geosciences, Geospatial Data Analysis Concentration Core - Directed Electives

Earn at least 9 credits from the following:

- BIOL4220 - Biostatistics
  OR WFS4220 - Biostatistics
- GEOG3200 - Water Resources
  OR GEOL3200 - Water Resources
- GEOG4150 - Geomorphology
  OR GEOL4150 - Geomorphology
- GEOG4511 - Theory of GIS II
- GEOG4711 - Hydrogeology
  OR GEOL4711 - Hydrogeology

Geospatial Data Analysis (GDA) Concentration Directed Electives, any 3 of the following courses (9-11 hours) • BIOL 4220 (5220) - Biostatistics Credit: 3. or • WFS 4220 (5220) - Biostatistics Credit: 3. • BIOL 4610 (5610) - Invertebrate Zoology Credit: 3. • GEOG 3200 - Water Resources Credit: 3. or • GEOL 3200 - Water Resources Credit: 3. • GEOG 4150 (5150) - Geomorphology Credit: 4. or • GEOL 4150 (5150) - Geomorphology Credit: 4. • GEOG 4511 (5511) - Theory of GIS II Credit: 3. • GEOG 4711 (5711) - Hydrogeology Credit: 4. or • GEOL 4711 (5711) - Hydrogeology Credit: 4.

Additional Program Requirements

Select one group from:

BIOL1020 and BIOL3130 or

PHYS2010 and PHYS2020

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I
  OR CHEM1010 - Introductory Chemistry I
- CHEM1120 - General Chemistry II
  OR CHEM1020 - Introductory Chemistry II
- MATH1710 - Pre-Calculus Algebra
  OR MATH1730 - Pre-Calculus Math
  OR MATH1910 - Calculus I
- MATH3070 - Statistical Methods I
- MATH1720 - Pre-calculus Trigonometry
  OR ELECTIVE - Elective Credit
- MSCI1020 - First Year Connections

Note:

1 This course (MSCI1020) is not included in 120-hour curriculum.

2 Take MATH 1710, MATH 1730 or MATH 1910

3 If MATH 1710 was taken, then take MATH 1720; otherwise take a free elective.

Elective Credits

Electives (16-21 hours)
Additional free electives are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Geosciences, Geographic Information Systems Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	18

Requirement Select

- CHEM1010 - Introductory Chemistry I
  OR
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1730 - Pre-Calculus Math
  OR
- MATH1910 - Calculus I

Actual Credits 3

Requirement Select
- MSCI1020 - First Year Connections

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- CHEM1020 - Introductory Chemistry II
  OR
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- GEOL1045 - Earth Environ Resrces Soc
  OR
- GEOG2100 - Weather and Climate Systems

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	13

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I
  OR
- BIOL1020 - Diversity of Life

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- Electives (4 cr.)
  (Generic)

Actual Credits 4

Requirement Select
- GEOG4510 - Theory of GIS I

Actual Credits 3

Requirement Select
- GEOL2600 - Geosciences Career Preparation

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II
  OR
- BIOL3130 - General Ecology

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- GEOS/Geographical Information Systems - GIS Directed Electives

Actual Credits 4

Requirement Select
- GEOS/Geographical Information Systems - GIS Required Courses

Actual Credits 6

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- GEOS/Geographical Information Systems - GIS Directed Electives

Actual Credits 3

Requirement Select
- GEOG4210 - Cartography

Actual Credits 3

Requirement Select
- GEOS/Geographical Information Systems - GIS Required Courses

Actual Credits 6

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- GEOS/Geographical Information Systems - GIS Directed Electives

Actual Credits 3

Requirement Select
- Free Electives
  (Generic)

Actual Credits 5

Requirement Select
- GEOL4930 - Senior Thesis

Actual Credits 3

Requirement Select
- MATH 1720 or Free Elective
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- Free Electives
  (Generic)

Actual Credits 10

Requirement Select
- GEOL4931 - Senior Thesis

Actual Credits 3

Requirement Select
- Note: 1 This course not included in 120-hour curriculum. 2 MATH 1710, MATH 1730 or MATH 1910 3 If MATH 1710 was taken, then take MATH 1720; otherwise take a free elective. Geographical Information Systems (GIS) Concentration
  This course not included in 120-hour curriculum.
  2 MATH 1710, MATH 1730 or MATH 1910
  3 If MATH 1710 was taken, then take MATH 1720; otherwise take a free elective.
  (Generic)

Actual Credits -

Requirement Select
- Required Courses (12 hours) • CSC 1200 - Principles of Computing Credit: 3. or • DS 2810 - Computer Applications in Business Credit: 3. or • CITC 1300 Beginning HTML and CSS (TN eCampus) Credit: 3. • GEOG 4650 (5650) - Environmental Applications of GIS Credit: 3. • GEOG 4850 (5850) - Advanced GIS Credit: 3. • GEOL 4410 (5410) - Remote Sensing Credit: 3. Geographical Information Systems
  (Generic)

Actual Credits -

Requirement Select
- Directed Electives, any 3 of the following courses (9-11 hours) • BIOL 4220 (5220) - Biostatistics Credit: 3. or • WFS 4220 (5220) - Biostatistics Credit: 3. • BIOL 4610 (5610) - Invertebrate Zoology Credit: 3. • GEOG 3200 - Water Resources Credit: 3. or • GEOL 3200 - Water Resources Credit: 3. • GEOG 4150 (5150) - Geomorphology Credit: 4. or • GEOL 4150 (5150) - Geomorphology Credit: 4. • GEOG 4511 (5511) - Theory of GIS II Credit: 3. • GEOG 4711 (5711) - Hydrogeology Credit: 4. or • GEOL 4711 (5711) - Hydrogeology Credit: 4.
  (Generic)

Actual Credits -

GEOS-GEO - Geosciences, Geology Concentration, B.S.

Program Overview

Program Long Title
Geosciences, Geology Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Earth Sciences

Requirements

Simple Requirements

Geosciences, Geology Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundation Core - Financial or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Geosciences, Geology Concentration Core

Complete ALL of the following Courses:
- GEOL1040 - Physical Geology
- GEOL1045 - Earth Environ Resrces Soc
  OR GEOG2100 - Weather and Climate Systems
- GEOL2600 - Geosciences Career Preparation
- GEOG4210 - Cartography
- GEOG4510 - Theory of GIS I
- GEOL4930 - Senior Thesis
- GEOL4931 - Senior Thesis

Geosciences, Geology Concentration Core - Required Electives

Complete at least 4 of the following courses:
- GEOL3120 - Mineralogy
- GEOL3230 - Structural Geology & Tectonics
- GEOL3830 - Field Geology
- GEOL4110 - Sedimentation & Stratigraphy
- GEOL4210 - Advanced Historical Geology

Geology Concentration Required Courses, any 4 of the following courses (15-16 hours): • GEOL 3120 - Minerology • GEOL 3230 - Structural Geology and Tectonics Credit: 4. • GEOL 3830 - Field Geology Credit: 4. • GEOL 4110 - Sedimentation and Stratigraphy Credit: 4. • GEOL 4210 - Advanced Historical Geology Credit: 3.

Geosciences, Geology Concentration Core - Directed Electives

Complete at least 3 of the following courses:
- GEOL3310 - Planetary Geoscience
- GEOL3350 - Paleobiology
- GEOL3550 - Paleoclimates
- GEOL3900 - Economic Geology
- GEOL4120 - Igneous/Metamorphic Petrology
- GEOG4150 - Geomorphology
  OR GEOL4150 - Geomorphology
- GEOL4200 - Geological Exploration Techniq
- GEOG4711 - Hydrogeology
  OR GEOL4711 - Hydrogeology

Geology Concentration Directed Electives, any 3 of the following courses (10-12 hours) • GEOL 3310 - Planetary Geoscience Credit: 3. • GEOL 3350 - Paleobiology • GEOL 3550 - Paleoclimates Credit: 4. • GEOL 3900 - Economic Geology Credit: 3. • GEOL 4120 – Igneous/Metamorphic Petrology • GEOG 4150 (5150) - Geomorphology Credit: 4. or • GEOL 4150 (5150) - Geomorphology Credit: 4. • GEOL 4200 - Geological Exploration Techniques Credit: 4. • GEOG 4711 (5711) - Hydrogeology Credit: 4. or • GEOL 4711 (5711) - Hydrogeology Credit: 4.

Additional Program Requirements

Select one group from:

BIOL1020 and BIOL3130 or

PHYS2010 and PHYS2020

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- MATH1710 - Pre-Calculus Algebra
  OR MATH1730 - Pre-Calculus Math
  OR MATH1910 - Calculus I
- MATH3070 - Statistical Methods I
- MATH1720 - Pre-calculus Trigonometry
  OR ELECTIVE - Elective Credit
- MSCI1020 - First Year Connections

Note:

1 This course (MSCI1020) is not included in 120-hour curriculum.

2 Take MATH 1710, MATH 1730 or MATH 1910

3 If MATH 1710 was taken, then take MATH 1720; otherwise take a free elective.

Elective Credits

Electives (13-17 hours)
Additional free electives are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Geosciences, Geology Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	18

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1730 - Pre-Calculus Math
  OR
- MATH1910 - Calculus I

Actual Credits 3

Requirement Select
- MSCI1020 - First Year Connections

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- GEOL1045 - Earth Environ Resrces Soc
  OR
- GEOG2100 - Weather and Climate Systems

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I
  OR
- BIOL1020 - Diversity of Life

Actual Credits 4

Requirement Select
- GEOS/Geology - Required Courses

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	13

Requirement Select
- GEOG4510 - Theory of GIS I

Actual Credits 3

Requirement Select
- GEOL2600 - Geosciences Career Preparation

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II
  OR
- BIOL3130 - General Ecology

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- GEOS/Geology - Required Courses

Actual Credits 3

Requirement Select
- GEOS/Geology - Directed Electives

Actual Credits 3

Requirement Select
- MATH1720 - Pre-calculus Trigonometry
  OR
- Free Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- GEOS/Geology - Directed Electives

Actual Credits 4

Requirement Select
- GEOS/Geology - Required Courses

Actual Credits 8

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- GEOS/Geology - Directed Electives

Actual Credits 3

Requirement Select
- Electives (6-8 cr.)
  (Generic)

Actual Credits 8

Requirement Select
- GEOL4930 - Senior Thesis

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Electives (7-9 cr.)
  (Generic)

Actual Credits 9

Requirement Select
- GEOG4210 - Cartography

Actual Credits 3

Requirement Select
- GEOL4931 - Senior Thesis

Actual Credits 3

Requirement Select
- 1 This course not included in 120-hour curriculum. 2 MATH 1710, MATH 1730 or MATH 1910 3 If MATH 1710 was taken, then take MATH 1720; otherwise take a free elective.
  (Generic)

Actual Credits -

Requirement Select

- Geology Concentration Required Courses, any 4 of the following courses (15-16 hours) • GEOL 3120 - Mineralogy Credit: 4. • GEOL 3230 - Structural Geology and Tectonics Credit: 4. • GEOL 3830 - Field Geology Credit: 4. • GEOL 4110 - Sedimentation and Stratigraphy Credit: 4. • GEOL 4210 - Advanced Historical Geology Credit: 3.
  (Generic)

Actual Credits -

Requirement Select

- Geology Concentration Directed Electives, any 3 of the following courses (10-12 hours) • GEOL 3310 - Planetary Geoscience Credit: 3. • GEOL 3350 - Paleobiology • GEOL 3550 - Paleoclimates Credit: 4. • GEOL 3900 - Economic Geology Credit: 3. • GEOL 4120 – Igneous/ Metamorphic Petrology • GEOG 4150 (5150) - Geomorphology Credit: 4. or • GEOL 4150 (5150) - Geomorphology Credit: 4. • GEOL 4200 - Geological Exploration Techniques Credit: 4. • GEOG 4711 (5711) - Hydrogeology Credit: 4. or • GEOL 4711 (5711) - Hydrogeology Credit: 4.
  (Generic)

Actual Credits -

GEOS-GEOG - Geosciences, Geography Concentration, B.S.

Program Overview

Program Long Title

Geosciences, Geography Concentration, B.S.

College/School

Arts and Sciences

Department(s)

Earth Sciences

Requirements

Simple Requirements

Geosciences, Geography Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundation Core - Financial or Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Geosciences, Geography Concentration Core

Complete ALL of the following Courses:

- GEOL1040 - Physical Geology
- GEOL1045 - Earth Environ Resrces Soc
  OR GEOG2100 - Weather and Climate Systems
- GEOL2600 - Geosciences Career Preparation
- GEOG4210 - Cartography
- GEOG4510 - Theory of GIS I
- GEOL4930 - Senior Thesis
- GEOL4931 - Senior Thesis

Geosciences, Geography Concentration Core - Required Courses

Complete ALL of the following Courses:

- GEOG1012 - Cultural Geography
- GEOG1130 - Geography of Natural Hazards
- GEOG3200 - Water Resources
  OR GEOL3200 - Water Resources
- GEOG4650 - Environmental Apps of GIS

Geography Concentration Required Courses (12 hours) • GEOG 1012 - Cultural Geography Credit: 3. • GEOG 1130 - Geography of Natural Hazards Credit: 3. • GEOG 3200 - Water Resources Credit: 3. or • GEOL 3200 - Water Resources Credit: 3. • GEOG 4650 (5650) - Environmental Applications of GIS Credit: 3.

Geosciences, Geography Concentration Core - Directed Electives

Earn at least 12 credits from the following:

- GEOL2000 - Earth Evolution/Life History (Inactive)
- GEOL3550 - Paleoclimates
- GEOG4150 - Geomorphology
  OR GEOL4150 - Geomorphology
- GEOG4410 - Remote Sensing
- GEOG4511 - Theory of GIS II
- GEOG4711 - Hydrogeology
  OR GEOL4711 - Hydrogeology
- GEOG4850 - Advanced GIS

Geography Concentration Directed Electives, any 4 of the following courses (12-15 hours) • GEOL 2000 - Earth Evolution and Life History Credit: 3. • GEOL 3550 - Paleoclimates Credit: 4. • GEOG 4150 (5150) - Geomorphology Credit: 4. or • GEOL 4150 (5150) - Geomorphology Credit: 4. • GEOG 4410 (5410) - Remote Sensing Credit: 3. • GEOG 4511 (5511) - Theory of GIS II Credit: 3. • GEOG 4711 (5711) - Hydrogeology Credit: 4. or • GEOL 4711 (5711) - Hydrogeology Credit: 4. • GEOG 4850 (5850) - Advanced GIS Credit: 3.

Additional Program Requirements

Select one group from:

BIOL1020 and BIOL3130 or

PHYS2010 and PHYS2020

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I
  OR CHEM1010 - Introductory Chemistry I
- CHEM1120 - General Chemistry II
  OR CHEM1020 - Introductory Chemistry II
- MATH1710 - Pre-Calculus Algebra
  OR MATH1730 - Pre-Calculus Math
  OR MATH1910 - Calculus I
- MATH3070 - Statistical Methods I
- MATH1720 - Pre-calculus Trigonometry
  OR ELECTIVE - Elective Credit
- MSCI1020 - First Year Connections

Note:

1 This course (MSCI1020) is not included in 120-hour curriculum.

2 Take MATH 1710, MATH 1730 or MATH 1910

3 If MATH 1710 was taken, then take MATH 1720; otherwise take a free elective.

Elective Credits

Electives (18-19 hours)
Additional free electives are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Geosciences, Geography Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	18 - 20

Requirement Select

- CHEM1010 - Introductory Chemistry I
  OR
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1730 - Pre-Calculus Math
  OR
- MATH1910 - Calculus I

Actual Credits 3 - 5

Requirement Select
- MSCI1020 - First Year Connections

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- CHEM1020 - Introductory Chemistry II
  OR
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- GEOL1045 - Earth Environ Resrces Soc
  OR
- GEOG2100 - Weather and Climate Systems

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	13

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I
  OR
- BIOL1020 - Diversity of Life

Actual Credits 4

Requirement Select
- GEOS/Geography - Required Courses

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- GEOG4510 - Theory of GIS I

Actual Credits 3

Requirement Select
- GEOL2600 - Geosciences Career Preparation

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II
  OR
- BIOL3130 - General Ecology

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	13 - 12

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- GEOS/Geography - Directed Electives

Actual Credits 4 - 3

Requirement Select
- MATH 1720 or Free Elective
  (Generic)

Actual Credits 3

Requirement Select
- GEOS/Geography - Required Courses

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	18

Requirement Select

- GEOG4210 - Cartography

Actual Credits 3

Requirement Select

- GEOS/Geography - Required Courses

Actual Credits 6

Requirement Select

- Free Electives
  (Generic)

Actual Credits 9

Year	Semester	Actual Credits
Senior Year	First Semester	13 - 12

Requirement Select

- Free Electives
  (Generic)

Actual Credits 10 - 9

Requirement Select

- GEOG4930 - Senior Thesis

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- GEOG4931 - Senior Thesis

Actual Credits 3

Requirement Select

- GEOS/Geography - Required Courses

Actual Credits 3

Requirement Select

- GEOS/Geography - Directed Electives

Actual Credits 9

Requirement Select

- 1 This course not included in 120-hour curriculum.
  2 MATH 1710, MATH 1730 or MATH 1910
  3 If MATH 1710 was taken, then take MATH 1720; otherwise take a free elective.
  (Generic)

Actual Credits -

Requirement Select

- Geography Concentration Required Courses (12 credits) - GEOG 1012 - Cultural Geography Credit: 3 • GEOG 1130 - Geography of Natural Hazards Credit: 3 • GEOG 3200 - Water Resources Credit: 3. or • GEOL 3200 - Water Resources Credit: 3 • GEOG 4650 (5650) - Environmental Applications of GIS Credit: 3.
  (Generic)

Actual Credits -

Requirement Select

- Geography Concentration Directed Electives, any 4 of the following courses (12-15 hours) • GEOL 2000 - Earth Evolution and Life History Credit: 3. • GEOL 3550 - Paleoclimates Credit: 4. • GEOG 4150 (5150) - Geomorphology Credit: 4. or • GEOL 4150 (5150) - Geomorphology Credit: 4. • GEOG 4410 (5410) - Remote Sensing Credit: 3. • GEOG 4511 (5511) - Theory of GIS II Credit: 3. • GEOG 4711 (5711) - Hydrogeology Credit: 4. or • GEOL 4711 (5711) - Hydrogeology Credit: 4. • GEOG 4850 (5850) - Advanced GIS Credit: 3.
  (Generic)

Actual Credits -

GEOS-PGEO - Geosciences, Planetary Geology, B.S.

Program Overview

Program Long Title
Geosciences, Planetary Geology, B.S.

College/School
Arts and Sciences

Department(s)
Earth Sciences

Requirements

Simple Requirements

Planetary Geology Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundation Core - Financial or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social and Behavioral Sciences (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Geosciences Core

Complete ALL of the following Courses:
- GEOL1040 - Physical Geology
- GEOL1045 - Earth Environ Resrces Soc
  OR GEOG2100 - Weather and Climate Systems
- GEOL2600 - Geosciences Career Preparation
- GEOG4210 - Cartography
- GEOG4510 - Theory of GIS I
- GEOL4930 - Senior Thesis
- GEOL4931 - Senior Thesis

Planetary Geology Required Courses

Complete ALL of the following Courses:
- ASTR1010 - Intro to Modern Astronomy I
- ASTR1020 - Intro to Modern Astronomy II
- ASTR3100 - Observational Astronomy
- GEOL3120 - Mineralogy
- GEOL3310 - Planetary Geoscience
- GEOL4410 - Remote Sensing

Planetary Geology Directed Electives

Complete at least 3 of the following courses:
- GEOG4150 - Geomorphology
- GEOL4210 - Advanced Historical Geology
- GEOG4511 - Theory of GIS II
- BIOL3200 - General Microbiology
- BIOL4110 - Microbial Evolution
- CHEM3005 - Elementary Organic Chemistry
  OR CHEM3500 - Elements/Physical Chemistry

Planetary Geology Directed Electives, select 3 (9-12 credits).

Additional Program Requirements

Select one group from:

BIOL1020 and BIOL3130 or

PHYS2010 and PHYS2020

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- MATH1710 - Pre-Calculus Algebra
  OR MATH1730 - Pre-Calculus Math
  OR MATH1910 - Calculus I
- MATH3070 - Statistical Methods I
- MATH1720 - Pre-calculus Trigonometry
  OR ELECTIVE - Elective Credit
- MSCI1020 - First Year Connections

Note:

1 This course (MSCI1020) is not included in 120-hour curriculum.

2 Take MATH 1710, MATH 1730 or MATH 1910

3 If MATH 1710 was taken, then take MATH 1720; otherwise take a free elective.

Elective Credits

Electives (7-11 hours)
Additional free electives are needed to complete the required 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Geosciences, Planetary Geology Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1730 - Pre-Calculus Math
  OR
- MATH1910 - Calculus I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- GEOL1045 - Earth Environ Resrces Soc
  OR
- GEOG2100 - Weather and Climate Systems

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I
  OR
- BIOL1020 - Diversity of Life

Actual Credits 4

Requirement Select
- Planetary Geology Required Courses - select from: ASTR 1010, ASTR 1020, ASTR 3100, GEOL 3120, GEOL 3310, and GEOL 4410
  (Generic)

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	13

Requirement Select
- GEOG4510 - Theory of GIS I

Actual Credits 3

Requirement Select
- GEOL2600 - Geosciences Career Preparation

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- PHYS2020 - Algebra-based Physics II
  OR
- BIOL3130 - General Ecology

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	17

Requirement Select

- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select

- MATH 1720 or Free Elective
  (Generic)

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- Planetary Geology Required Courses - select from: ASTR 1010, ASTR 1020, ASTR 3100, GEOL 3120, GEOL 3310, and GEOL 4410
  (Generic)

Actual Credits 4

Requirement Select

- GEOG4150 - Geomorphology
  OR
- GEOL4210 - Advanced Historical Geology
  OR
- GEOG4511 - Theory of GIS II
  OR
- BIOL3200 - General Microbiology
  OR
- BIOL4110 - Microbial Evolution
  OR
- CHEM3005 - Elementary Organic Chemistry
- **AND** CHEM3500 - Elements/Physical Chemistry

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- GEOG4210 - Cartography

Actual Credits 3

Requirement Select

- Planetary Geology Required Courses - select from: ASTR 1010, ASTR 1020, ASTR 3100, GEOL 3120, GEOL 3310, and GEOL 4410
  (Generic)

Actual Credits 4

Requirement Select

- GEOG4150 - Geomorphology
  OR
- GEOL4210 - Advanced Historical Geology
  OR
- GEOG4511 - Theory of GIS II
  OR
- BIOL3200 - General Microbiology
  OR
- BIOL4110 - Microbial Evolution
  OR
- CHEM3005 - Elementary Organic Chemistry
- **AND** CHEM3005 - Elementary Organic Chemistry

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- GEOL4930 - Senior Thesis

Actual Credits 3

Requirement Select

- Planetary Geology Required Courses - select from: ASTR 1010, ASTR 1020, ASTR 3100, GEOL 3120, GEOL 3310, and GEOL 4410
  (Generic)

Actual Credits 4

Requirement Select

- GEOG4150 - Geomorphology
  OR
- GEOL4210 - Advanced Historical Geology
  OR
- GEOG4511 - Theory of GIS II
  OR
- BIOL3200 - General Microbiology
  OR
- BIOL4110 - Microbial Evolution
  OR
- CHEM3005 - Elementary Organic Chemistry
- **AND** CHEM3500 - Elements/Physical Chemistry

Actual Credits 4

Requirement Select

- Planetary Geology Required Courses - select from: ASTR 1010, ASTR 1020, ASTR 3100, GEOL 3120, GEOL 3310, and GEOL 4410
  (Generic)

Actual Credits 4

Requirement Select
- Electives (4 cr.)
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- GEOL4931 - Senior Thesis

Actual Credits 3

Requirement Select
- Electives
  (Generic)

Actual Credits 4

Requirement Select
- Planetary Geology Required Courses - select from: ASTR 1010, ASTR 1020, ASTR 3100, GEOL 3120, GEOL 3310, and GEOL 4410
  (Generic)

Actual Credits 3

Requirement Select
- Planetary Geology Required Courses - select from: ASTR 1010, ASTR 1020, ASTR 3100, GEOL 3120, GEOL 3310, and GEOL 4410
  (Generic)

Actual Credits 3

Courses

Course Information

Course Title
Weather and Climate

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
1010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to weather and climate, landforms, soils, vegetation, and water.

College/School
Arts and Sciences

Course Information

Course Title
Cultural Geography

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
1012

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Distribution of people and their activities as they are related to the earth.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Social/Behavioral Sciences).

Note:
(GEOG 1030, TTP Course)

Course Information

Course Title
World Regional Geography I

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
1035

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course examines the political, economic, demographic and environmental shifts happening in the world today. Throughout this course, students will be exposed to the following concepts: globalization, development of world regions, issues of people and land, diversity of cultures and regions, global changes and local responses, cultural and political landscapes, global economics, and environment issues.

College/School
Arts and Sciences

Requisites and Restrictions

Note:
(GEOG 2010, TTP Course)

Course Information

Course Title
Geography of Natural Hazards

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
1130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
The societal and economic impact of natural hazards including flooding, hurricanes, tornadoes, volcanoes, earthquakes, landslides, disease, wildfire, drought, famine, and climate change. The response of governments, cultures, and individuals to natural hazards.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Social/Behavioral Sciences).

Course Information

Course Title
Weather and Climate Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
2100

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
An introduction to atmospheric science and elements controlling daily weather. Global and localscale atmospheric processes, atmospheric hazards, weather monitoring and technology,forecasting, global climates, and climate change.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Scientific Reasoning).

Course Information

Course Title
Water Resources

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course deals with water as a resource basic for life on Earth. Topics to be covered include: dams and reservoirs, irrigation, inter-basin transfers, river channel modification, flood control, water quality, and water law.

College/School
Arts and Sciences

Course Information

Course Title
Meteorology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
3330

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Earth's atmosphere and the mechanics and causes of day to day weather changes.

College/School
Arts and Sciences

Course Information

Course Title
Geomorphology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4150

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: GEOL 1040. Analysis of landforms and processes that shape them.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040.

Course Information

Course Title
Cartography

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4210

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Principles and practices of map construction and interpretation.

College/School
Arts and Sciences

Course Information

Course Title
Remote Sensing

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4410

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Principles and applications of remote sensing. Provides a survey of the concepts and techniques of remote sensing and image analysis for natural resources, geomorphology, and Earth surface processes.

College/School
Arts and Sciences

Course Information

Course Title
Theory of GIS I

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Permission of instructor. Introduction to 1) the PC ARC/INFO GIS package, 2) ArcView GIS package, and 3) the integration of Global Positioning Systems (GPS) with GIS.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Theory of GIS II

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4511

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of instructor and GEOG 4510 (5510). Intermediate principles of GIS using ArcGIS and ArcView packages. Advanced integration of GPS with GIS. Spatial analysis and modeling capabilities of GIS emphasized.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor and GEOG 4510 (5510).

Course Information

Course Title
Principles of GIS

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to the fundamentals of GIS. Theoretical and technical principles of managing and processing geographic data, nature of geographic data, spatial data models of map projection systems, kriging, structures, and spatial analytical and modeling techniques.

College/School
Arts and Sciences

Course Information

Course Title
Environmental Apps of GIS

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4650

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: GEOG 4510. Applications of GIS in environmental sciences and engineering. Main emphasis is on approaches, scripting, and modeling exercises. Covers the scope of ecosystems, forestry, drainage basins, pollution modeling, and spatial analysis of contaminants in various environments using GIS as the main tool of analysis. Completion of a real-world GIS project is required.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOG 4510 (5510).

Course Information

Course Title
Hydrogeology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4711

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: GEOL 1040 or GEOL 3210; MATH 1710 or MATH 1730 or MATH 1910. Occurrence and movement of ground water, well hydraulics, water quality, and pollution.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040 or GEOL 3210; MATH 1710 or MATH 1730 or MATH 1910.

Course Information

Course Title
AI for Geospatial Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Artificial intelligence and machine learning techniques for geospatial analysis. Course focuses on the latest advances in the field, including deep learning techniques, as applied to geospatial datasets and remote sensing technology. Students use real world case studies to leverage artificial intelligence and solve complex geospatial challenges.

College/School
Arts and Sciences

Syllabus
AI for Geospatial Analysis syllabus.docx

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4810

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Research course on topics of significance in the field of geography. A paper reporting the results of this research is required. Course may be taken for credit more than once.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4820

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Research course on topics of significance in the field of geography. A paper reporting the results of this research is required. Course may be taken for credit more than once.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Advanced GIS

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4850

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: GEOG 4510. Advanced topis in GIS, including writing of avenue scripts, writing and importing Visual Basic scripts, customization of the interface; customization of spatial, network, and 3D extensions of ArcView and AML.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOG 4510 (5510).

Course Information

Course Title
Senior Thesis

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4930

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Consent of instructor. Supervised independent study of an original research problem. Student is required to make a research proposal, collect data, review appropriate literature, write a paper, and present orally the results of the research problem. (Available only to Geology majors.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Senior Thesis

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOG

Course Number
4931

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: GEOG 4930 and consent of instructor. Supervised independent study of an original research problem. Student is required to make a research proposal, collect data, review appropriate literature, write a paper and present orally the results of the research problem. (Available only to geology majors.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 4930 and consent of instructor.

Course Information

Course Title
Field Exp in the Geosciences

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
1020

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Course Description
This course will introduce students interested in science to the practice of scientific research in the field and the laboratory, with emphasis on the geosciences. Field trips and in-class activities will stimulate critical thinking and real-world problem-solving skills unique to the sciences. Current geoscience-related issues will be discussed in class (e.g. Sumatra tsunami, Himalayan earthquakes).

College/School
Arts and Sciences

Course Information

Course Title
Physical Geology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
1040

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Origin and classification of minerals and rocks; geologic processes and landform development. Credit will not be given for both: 1)GEOL 1040 and GEOL 1070, 2)GEOL 1040 and GEOL 3210, and 3)GEOL 1070 and GEOL 3210

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Natural Sciences).

Course Information

Course Title
Earth Environ Resrces Soc

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
1045

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Application of physical geology principles to geologic hazards, environmental pollution, and land/resource use.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Scientific Reasoning).

Course Information

Course Title
Earth Environ/Resource/Society

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
1046

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Application of physical geology principles to geologic hazards, environmental pollution, and land/resource use. This course cannot be taken as part of the university natural sciences requirement and credit will not be given for both GEOL 1046 and GEOL 1045.

College/School
Arts and Sciences

Course Information

Course Title
Concepts of Geology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
1070

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Introduction to the earth sciences: minerals and rocks, resources, geologic processes, water, earthquakes, maps, folds and faults, geologic time, continental drift, weather, and climate. This course will not count as part of a geology sequence. Credit will not be given for both: 1)GEOL 1040 and GEOL 1070, 2)GEOL 1040 and GEOL 3210, and 3)GEOL 1070 and GEOL 3210

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Natural Sciences).

Course Information

Course Title
Concepts of Geology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
1090

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Introduction to the geosciences: planetary geology, minerals and rocks, geologic processes, surface and groundwater, earthquakes, geologic structures, geologic time, plate tectonics, weather and climate, mineral and energy resources. Credit will not be given for both GEOL 1040 and GEOL 1090 or GEOL 1090 and GEOL 3210.

College/School
Arts and Sciences

Syllabus
Earth Sciences proposal 1 (2-11-2025) GEOL 1090 Syllabus.docx, General education new 1090 courses - UCC Feb 2025.docx

Course Information

Course Title
Oceanography 1 Phy Chem Geol

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
2510

Credit Hours

Credit Hours:
5

Lecture Hours

Min:
5

Course Description
Prerequisites: College algebra, eight semester hours of chemistry. Fundamentals of oceanography integrating chemical, geological, and physical oceanography.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
College Algebra, eight semester hours of Chemistry.

Course Information

Course Title
Geosciences Career Preparation

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
2600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to professional research methods used in the geosciences. Includes an overview of data types and collection methods, data management, survey of scientific literature, research design, and professional ethics. Activities help students prepare to conduct projects and communicate with STEM professionals in their future careers.

College/School
Arts and Sciences

Course Information

Course Title
Mineralogy

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
3120

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisites: GEOL 1040 or GEOL 3210. Geometrical crystallography; determination of silicate and non-silicate minerals by physical properties, chemical tests, and X-ray diffraction.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040 or GEOL 3210

Course Information

Course Title
Water Resources

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course deals with water as a resource basic for life on Earth. Topics to be covered include: dams and reservoirs, irrigation, inter-basin transfers, river channel modification, flood control, water quality, and water law.

College/School
Arts and Sciences

Course Information

Course Title
Geology for Engineers

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
3210

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Introduction to principles of geology and practical application of geology to engineering problems. Credit will not be given for both: 1)GEOL 1040 and GEOL 1070, 2)GEOL 1040 and GEOL 3210, and 3)GEOL 1070 and GEOL 3210

College/School
Arts and Sciences

Course Information

Course Title
Structural Geology & Tectonics

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
3230

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: GEOL 1040 or GEOL 3210.The mechanisms of plate tectonics and the geologic structures that result from rock deformation; application of methods for structural analysis in the field and the lab.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040 or GEOL 3210.

Course Information

Course Title
Planetary Geoscience

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
3310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Geology of rocky bodies in the solar system and exoplanets. Integrates data from exploration missions to compare Earth processes to other celestial objects.

College/School
Arts and Sciences

Course Information

Course Title
Paleobiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
3350

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: Junior standing and one of the following courses: GEOL 1040, GEOL 2000, BIOL 1010, BIOL 1020, BIOL 1050, BIOL 1110, or BIOL 1120. Survey of biologic and geologic principles related to preservation, variation, classification, speciation, evolution, paleoecology, and biogeography of fossil invertebrates.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing and one of the following courses: GEOL 1040, GEOL 2000, BIOL 1010, BIOL 1020, BIOL 1113 or BIOL 1123.

Course Information

Course Title
Paleontology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
3410

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: GEOL 1040 or 1045 or BIOL 1110. Systematics, morphology, stratigraphic distribution, and evolutionary significance of all major taxa of invertebrate macrofossils and selected microfossils.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040, GEOL 1045 or BIOL 1113.

Course Information

Course Title
Paleoclimates

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
3550

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: GEOL 1040, GEOL 1045 or GEOL 3210. Principles of the Earth's climate system, including proxies used for paleoclimate studies and the history of climate change throughout geological time.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040, GEOL 1045, or GEOL 3210.

Course Information

Course Title
Stable Isotope Geochemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
3750

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: CHEM 1110. This course will emphasize the geochemical elements of the Earth system. We will look at the nomenclature of stable isotope systems and look at the application to earth and environmental systems

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CHEM 1110.

Course Information

Course Title
Field Geology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
3830

Credit Hours

Credit Hours:
4

Other Hours

Min:
4

Course Description
Prerequisites: GEOL 1040 and GEOL 2600. Introduction to field methods involving the identification and tracing of geologic formations, aerial mapping and structure contouring. Six hours field work per week.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040 and GEOL 2600.

Course Information

Course Title
Economic Geology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
3900

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: GEOL 2500. Igneous, hydrothermal and sedimentary ore-forming processes; Origin of diamonds, rare earth and base metal deposits; Geospatial resource data analysis; Matallogeny.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 2500.

Course Information

Course Title
Sedimentation & Stratigraphy

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
4110

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisites: GEOL 1040 or GEOL 3210. Fundamental depositional processes, sedimentary structures, and facies models of siliciclastic and carbonate sedimentary rocks. Basic stratigraphy concepts, methods of correlation, and introduction to sequence stratigraphy.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040 or GEOL 3210

Course Information

Course Title
Igneous/Metamorphic Petrology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
4120

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisite: GEOL 1040 or GEOL 3210. Igneous and metamorphic rocks; classification, textures, and identification. Geochemical thermodynamics. Origins of these rocks in different plate tectonic settings.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040 or GEOL 3210

Course Information

Course Title
Geomorphology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
4150

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
4

Repeatable for Credit:
No

Course Description
Prerequisite: GEOL 1040 or GEOL 3210. Analysis of landforms and processes that shape them.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040 or GEOL 3210.

Course Information

Course Title
Geological Exploration Techniq

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
4200

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: GEOL 1040. Practical techniques for geological exploration, with emphasis on environmental, mining, and petroleum industry applications. Surface and subsurface methods include geological mapping, drilling, core extraction, wireline logging and 2D/3D seismic.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040.

Course Information

Course Title
Advanced Historical Geology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: GEOL 1040 or GEOL 3210. Advanced treatment of the Earth's history concentrating on plate tectonics, evolution of the biosphere, and chemical changes from the Hadean to the Holocene.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040 or GEOL 3210.

Course Information

Course Title
Envrnmntl Aqueous Geochemistry

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
4300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: GEOL 1040 or GEOL 3210, CHEM 1010 or CHEM 1110, or consent of instructor. Principles of water quality, chemical thermodynamics and equilibrium; chemical reactions; modeling of aquatic systems and a survey of practical applications of equilibrium aqueous geochemistry.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040 or GEOL 3210, CHEM 1010 or CHEM 1110, or consent of instructor.

Course Information

Course Title
Remote Sensing

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
4410

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Principles and applications of remote sensing. Provides a survey of the concepts and techniques of remote sensing and image analysis for natural resources, geomorphology and Earth surface processes.

College/School
Arts and Sciences

Course Information

Course Title
Hydrogeology

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
4711

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: GEOL 1040 or GEOL 3210; MATH 1710 or MATH 1730 or MATH 1910. Occurrence and movement of ground water, well hydraulics, water quality, and pollution.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 1040 or GEOL 3210; MATH 1710 or MATH 1730 or MATH 1910.

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
4810

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Major and consent of instructor. Advanced students may do independent investigations in some approved field. Course may be taken for credit more than once.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Major and consent of instructor.

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
4820

Credit Hours

Credit Hours:
1

Credit Hours:
4

Other Hours

Min:
1

Max:
4

Operator:
TO

Repeatable for Credit:
Yes

Number Of Credits:
4

Course Description
Credit 1-4
Prerequisite: Major and consent of instructor. Advanced students may do independent investigations in some approved field. Course may be taken for credit more than once.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Major and consent of instructor.

Course Information

Course Title
Senior Thesis

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
4930

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Consent of instructor. Supervised independent study of an original research problem. Student is required to make a research proposal, collect data, review appropriate literature, write a paper, and present orally the results of the research problem. (Available only to geology majors.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Senior Thesis

Academic Level (Course Level)
Undergraduate

Course Subject Code
GEOL

Course Number
4931

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

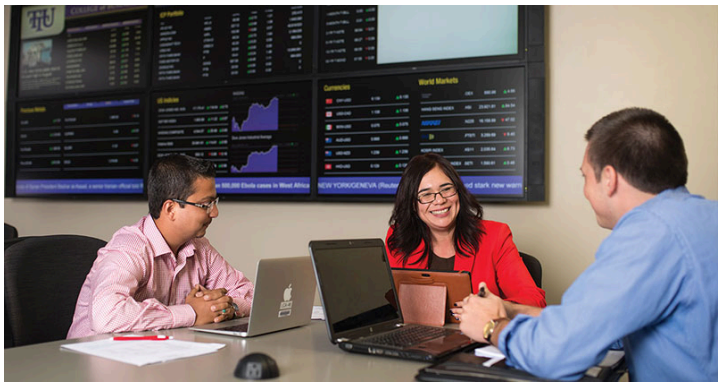
Course Description
Prerequisite: GEOL 4930 and consent of instructor. Supervised independent study of an original research problem. Student is required to make a research proposal, collect data, review appropriate literature, write a paper and present orally the results of the research problem. (Available only to geology majors.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GEOL 4930 and consent of instructor.

Economics/Finance/Marketing Department



Professor Pech, Chairperson; Professors M. Anitsal, DiFurio, Isbell, Pashley, Pharr, Stephens (Associate Vice President for Academic Affairs); Associate Professors Alley, Hales; Assistant Professors Lee, Mannahan, Park, Peng; Lecturer Nabors

The major in economics is a STEM-designated degree designed to provide a rigorous preparation for those who expect to pursue professional careers in economics and other areas in business. It emphasizes the development of an understanding of the main theoretical economic models and statistical techniques to understand individual, group, and market behavior.

The curriculum in finance offers a program that will assure sound preparation for those who expect to pursue professional careers in finance, as well as other business. The program is designed to provide a solid understanding of the financial decision-making process, with special emphasis on computer-assisted decision making. The curriculum is designed to enable the student to successfully gain initial employment in the areas of banking, real estate, insurance, investments, financial planning, and financial management.

The marketing major is created to provide students with a broad understanding of the factors and activities involved in the product management, distribution, promotion, and pricing processes. The major prepares students for careers in product and brand management, sales, advertising, retailing, industrial marketing, marketing research, customer service, and physical distribution. The curriculum is designed to include a comprehensive study of manufacturers, wholesalers, retailers, small businesses, service firms, and non-profit organizations.

Programs

BANK-CER - Banking Certificate

Program Overview

Program Long Title
Banking Certificate

College/School
Business

Department(s)
Economics/Finance/Marketing

Requirements

Simple Requirements

Banking Certificate (18 credits)

Type
Completion Requirement

Required Courses (9 hours):

Complete ALL of the following Courses:

- FIN3420 - Commercial Banking I
- FIN4420 - Commercial Banking II
- ECON3320 - Money and Banking

Additional Courses (6 hours):

Earn at least 6 credits from the following:

- ACCT4300 - Financial Statement Analysis
- DS4125 - Comp Forensics/Investigations
- ECON3610 - Business Statistics I
- FIN3210 - Principles/Managerial Fin
- FIN3830 - Fundamentals of Investment
- MKT3650 - Prof Selling & Sales Mgmt

Additional Course (3 cr.)

Earn at least 3 credits from the following:

- FIN3625 - Internship in Finance
- FIN4410 - Banking Advisory Board
- FIN4990 - Special Topics

ECN-BSECON - Economics, B.S.

Program Overview

Program Long Title
Economics, B.S.

College/School
Business

Department(s)
Economics/Finance/Marketing

Requirements

Simple Requirements

Economics, B.S. (120 hours)

Type
Completion Requirement

Flight Foundation - Written Communication (6 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Complete with DS 2810.

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

College of Business majors meet the Social/Behavioral Science requirement with ECON2010 and ECON2020.

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Economics Core

Complete ALL of the following Courses:
- ACCT2110 - Principles of Accounting I
- ACCT2120 - Principles of Accounting II
- DS2810 - DS 2810: Computer Applications in Organizations
- BMGT3510 - Mgmt/Organizational Behavior
- ECON3610 - Business Statistics I
- ECON3810 - Intermediate Microeconomics
- ECON3820 - Intermediate Macroeconomics
- ECON4640 - Econometrics
- ECON4650 - Econometrics II
- ECON4900 - Economics Workshop
- FIN3210 - Principles/Managerial Fin
- LAW2810 - Business Legal Env & Ethics
- MKT3400 - Principles of Marketing

Economics Core

ECON Electives (15 hours):

Complete 15 hours of ECON 3000-4000 level electives.

ECON-Related Directed Electives (9 hours): Complete nine hours of upper division (3000-4000 level) electives from ACCT, BMGT, DS, ECON, FIN, LAW or MKT.

Business Elective (3 hours):

Complete three hours of business electives.

Elective courses are to be selected in consultation with the academic advisor.

Additional Program Requirements

Complete ALL of the following Courses:
- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- MATH1530 - Introductory Statistics
- MATH1710 - Pre-Calculus Algebra
- MATH1830 - Applied Calculus
- UBUS1020 - Success Skills-Bus Studies

Additional Requirement:

Electives (9 hours) - Additional free electives are required to complete 120 earned hours .

Elective courses are to be selected in consultation with the academic advisor.

Flight Foundation Flexible elective (4 cr.)

Earn at least 4 credits
Choose 4 credits from these categories:

Humanities and Cultural Expression or

Scientific Reasoning or

Financial or Digital Literacy

Oral Communication (3 cr.)

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication

Degree Map

Degree Map Name
Degree Plan - Economics, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- DS2810 - DS 2810: Computer Applications in Organizations

Actual Credits 3

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Flight Foundation Elective (1 cr.) - choose from approved courses in Scientific Reasoning, Humanities and Cultural Expression, or Financial or Digital Literacy. (Generic)

Actual Credits 1

Requirement Select

- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- UBUS1020 - Success Skills-Bus Studies

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select

- Flight Foundation Elective (3 cr.) - choose from approved courses in Scientific Reasoning, Humanities and Cultural Expression, or Financial or Digital Literacy. (Generic)

Actual Credits 3

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select

- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select

- ACCT2110 - Principles of Accounting I

Actual Credits 3

Requirement Select

- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select

- MATH1830 - Applied Calculus

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select

- ACCT2120 - Principles of Accounting II

Actual Credits 3

Requirement Select
- ECON3610 - Business Statistics I

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Requirement Select
- ECON Directed elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- ECON Directed elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- ECON3810 - Intermediate Microeconomics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- ECON3820 - Intermediate Macroeconomics

Actual Credits 3

Requirement Select
- ECON4640 - Econometrics

Actual Credits 3

Requirement Select
- ECON Directed Electives (Generic)

Actual Credits 3

Requirement Select
- Business elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- ECON elective (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- ECON elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- ECON elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- ECON4650 - Econometrics II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Elective (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- ECON4900 - Economics Workshop

Actual Credits 3

Requirement Select
- ECON Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- ECON elective (3 cr.) (Generic)

Actual Credits 3

FIN-BSBA - Finance, B.S.B.A.

Program Overview

Program Long Title
Finance, B.S.B.A.

College/School
Business

Department(s)
Economics/Finance/Marketing

Requirements

Simple Requirements

Finance, B.S.B.A (120 hours)

Type
Completion Requirement

Flight Foundations - Written Communication (6 cr.)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

College of Business majors meet the Social/Behavioral Science requirement with ECON2010 and ECON2020.

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

Finance, B.S.B.A. Core

Complete ALL of the following Courses:

- ACCT2110 - Principles of Accounting I
- ACCT2120 - Principles of Accounting II
- DS2810 - DS 2810: Computer Applications in Organizations
- BMGT3510 - Mgmt/Organizational Behavior
- BMGT3720 - Business Communications I
- BMGT4930 - Business Strategy
- DS3520 - DS 3520: Operations and Supply Chain Management
- DS3620 - Bus Anyltcs:Data Drv Dec Makng
- DS3841 - Mgmt Information Systems
- ECON3610 - Business Statistics I
- FIN3210 - Principles/Managerial Fin
- FIN3220 - Intermediate Financial Mgmt
- FIN3830 - Fundamentals of Investment
- FIN4230 - Adv Fin Decision Analysis
- LAW2810 - Business Legal Env & Ethics
- MKT3400 - Principles of Marketing

Finance, B.S.B.A. Core

FIN Electives (15 hours):

Complete 15 hours from:

ECON 3810 or 3820 or 4510 or

FIN upper division (3000-4000 level) electives.

**** A minimum of six credits (6) of FIN electives must be taken at the 4000-level.**

Business Electives (6 hours):

Complete six hours of business electives.

Elective courses are to be selected in consultation with the academic advisor.

Additional Program Requirements

Complete ALL of the following Courses:

- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- MATH1530 - Introductory Statistics
- MATH1710 - Pre-Calculus Algebra
- UBUS1020 - Success Skills-Bus Studies

Electives (9 cr.) - Additional free electives are required to complete 120 earned hours.

Elective courses are to be selected in consultation with the academic advisor.

Flight Foundation Flexible Electives (4 cr.)

Flight Foundation Flexible Elective (4 cr.) - choose from Scientific Reasoning, Humanities and Cultural Expression, or Financial Literacy or Digital Literacy.

Flight Foundations - Oral Communication (3 cr.)

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication

Degree Map

Degree Map Name
Degree Map - Finance, B.S.B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- DS2810 - DS 2810: Computer Applications in Organizations

Actual Credits 3

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Requirement Select

- UBUS1020 - Success Skills-Bus Studies

Actual Credits 1

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- Flight Foundation Flexible elective (1 cr.) - choose from Scientific Reasoning, Humanities and Cultural Expression, or Financial Literacy or Digital Literacy. (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- Flight Foundation Flexible elective (3 cr.) - choose from Scientific Reasoning, Humanities and Cultural Expression, or Financial Literacy or Digital Literacy. (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ACCT2110 - Principles of Accounting I

Actual Credits 3

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Requirement Select
- ECON3610 - Business Statistics I

Actual Credits 3

Requirement Select
- ACCT2120 - Principles of Accounting II

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- DS3841 - Mgmt Information Systems

Actual Credits 3

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- DS3620 - Bus Anyltcs:Data Drv Dec Makng

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Business elective (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- DS3520 - DS 3520: Operations and Supply Chain Management

Actual Credits 3

Requirement Select
- FIN3220 - Intermediate Financial Mgmt

Actual Credits 3

Requirement Select
- FIN3830 - Fundamentals of Investment

Actual Credits 3

Requirement Select
- BMGT3720 - Business Communications I

Actual Credits 3

Requirement Select
- Business elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- FIN Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- FIN4230 - Adv Fin Decision Analysis

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- FIN elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- BMGT4930 - Business Strategy

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- FIN elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- FIN elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- FIN elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- FIN electives (15 credits required) - at least six credits are required at the 4000-level.
  (Generic)

Actual Credits -

MKT-BSBA - Marketing, B.S.B.A.

Program Overview

Program Long Title
Marketing, B.S.B.A.

College/School
Business

Department(s)
Economics/Finance/Marketing

Requirements

Simple Requirements

Marketing, B.S.B.A. (120 hours)

Type
Completion Requirement

Flight Foundation - Written Communication (6 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

College of Business majors meet the Social/Behavioral Science requirement with ECON2010 and ECON2020.

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

NOTE: BIOL 1080, CHEM 1310, GEOL 1070 and PHYS 1310 are also university approved science courses. However, they are better suited to other majors since they are 3-credit hour classes instead of 4 credits.

Marketing, B.S.B.A. Core

Complete ALL of the following Courses:
- ACCT2110 - Principles of Accounting I
- ACCT2120 - Principles of Accounting II
- DS2810 - DS 2810: Computer Applications in Organizations
- BMGT3510 - Mgmt/Organizational Behavior
- BMGT3720 - Business Communications I
- BMGT4930 - Business Strategy
- DS3520 - DS 3520: Operations and Supply Chain Management
- DS3620 - Bus Anyltcs:Data Drv Dec Makng
- DS3841 - Mgmt Information Systems
- ECON3610 - Business Statistics I
- FIN3210 - Principles/Managerial Fin
- LAW2810 - Business Legal Env & Ethics
- MKT3400 - Principles of Marketing
- MKT4530 - Consumer Behavior
- MKT4620 - Marketing Research
- MKT4730 - Marketing Strategy

Marketing, B.S.B.A. Core

MKT Electives (15 hours):

Complete 15 hours of MKT upper division (3000-4000 level) electives.

Business Electives (3 hours):

Complete three (3) hours of business electives.

Elective courses are to be selected in consultation with the academic advisor.

Additional Program Requirements

Complete ALL of the following Courses:
- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- MATH1530 - Introductory Statistics
- MATH1710 - Pre-Calculus Algebra
- UBUS1020 - Success Skills-Bus Studies

Electives (12 cr.) - Additional free electives are required to complete 120 earned hours.

Elective courses are to be selected in consultation with the academic advisor.

Flight Foundation Flexible elective (4 cr.)

Earn at least 4 credits
Choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy.

Oral Communication (3 cr.)

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication

Degree Map

Degree Map Name
Degree Plan - Marketing, B.S.B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- DS2810 - DS 2810: Computer Applications in Organizations

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- UBUS1020 - Success Skills-Bus Studies

Actual Credits 1

Requirement Select
- Flight Foundation Flexible Elective (1 cr.) - choose from Scientific Reasoning, Humanities and Cultural Expression, or Financial or Digital Literacy.
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- Flight Foundation Flexible elective (3 cr.) from Scientific Reasoning, Humanities and Cultural Expression, or Financial or Digital Literacy.
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ACCT2110 - Principles of Accounting I

Actual Credits 3

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- ACCT2120 - Principles of Accounting II

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- ECON3610 - Business Statistics I

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- Business Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- DS3841 - Mgmt Information Systems

Actual Credits 3

Requirement Select
- MKT4530 - Consumer Behavior

Actual Credits 3

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- DS3520 - DS 3520: Operations and Supply Chain Management

Actual Credits 3

Requirement Select
- DS3620 - Bus Anyltcs:Data Drv Dec Makng

Actual Credits 3

Requirement Select
- MKT Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Marketing elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- BMGT3720 - Business Communications I

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- MKT elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- MKT4620 - Marketing Research

Actual Credits 3

Requirement Select
- MKT elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- MKT elective (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- BMGT4930 - Business Strategy

Actual Credits 3

Requirement Select
- Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- MKT4730 - Marketing Strategy

Actual Credits 3

Requirement Select

- Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select

- Elective (3 cr.) (Generic)

Actual Credits 3

MKT-MIN - Marketing Minor

Program Overview

Program Long Title
Marketing Minor

College/School
Business

Department(s)
Economics/Finance/Marketing

Requirements

Simple Requirements

Minor in Marketing (15 hours)

Type
Completion Requirement

Marketing Minor Course Requirements

Complete ALL of the following Courses:

- MKT3400 - Principles of Marketing
- MKT4530 - Consumer Behavior

Additional MKT Electives (9 hours):

9 hours chosen from upper division (3000-4000 level) MKT electives.

Courses

Course Information

Course Title
Principles of Microeconomics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Supply and demand, theory of demand, principles of production, pricing, and distribution. Output market structures, labor markets and issues, and international trade.

College/School
Business

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Social/Behavioral Sciences).

Note:
(ECON 2020, TTP Course)

Course Information

Course Title
Principles of Macroeconomics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Aggregate supply and aggregate demand, employment and income determination, money and banking, monetary and fiscal policy, and international finance.

College/School
Business

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Social/Behavioral Sciences).

Note:
(ECON 2010, TTP Course)

Course Information

Course Title
Money and Banking

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
3320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECON 2020. Principles of money, banking, and the financial system; the impact of money on economic activity.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2020.

Course Information

Course Title
Sports Economics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Pre-requisite: ECON 2010, or consent of instructor. This course is designed to give students an economic understanding of professional and amateur sports. Topics to be studied include the economics of how amateur and professional sports leagues are organized, labor markets in sports, and the economic impact sports have on their communities.

College/School
Business

Syllabus
ECON 4990_ECON in Sports_Dowell Fall '24.pdf

Course Information

Course Title
Business Statistics I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
3610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: MATH 1530 and MATH 1710 or consent of instructor. Business applications of statistics and probability, with emphasis on critical thinking, statistical inference, statistical dependence, and linear regression.

College/School
Business

Requisites and Restrictions

Prerequisite:
MATH 1530 and MATH 1710 or consent of instructor.

Course Information

Course Title
Internship in Economics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
3625

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
A directed professional experience in the field of Economics.

College/School
Business

Syllabus
Example syllabus Econ 3625.doc

Requisites and Restrictions

Prerequisite:
Junior or Senior Standing and consent of Economics Internship Coordinator or Department Chairperson.

Course Information

Course Title
Business Statistics II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
3630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECON 3610. Advanced topics in probability, hypothesis testing, the power of a test, experimental design, and simple and multiple regression.Junior or Senior standing required. Business majors must complete BBUS.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 3610.

Course Information

Course Title
Intermediate Microeconomics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
3810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECON 2010. A formal and mathematically rigorous treatment of microeconomic analysis. Optimizing behavior and consumer choice theory. Firm production and costs; profit maximization. general equilibrium and the benefits of trade. Evaluation of government policy.Junior or Senior standing required. Business majors must complete BBUS.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2010.

Course Information

Course Title
Intermediate Macroeconomics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
3820

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECON 2020. Measurement and analysis of economic activity in the long run, and stabilization of economic activity over the business cycle using fiscal and monetary policy. Fundamentals of economic growth, as modeled by the Solow Growth model.Junior or Senior standing required. Business majors must complete BBUS.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2020.

Course Information

Course Title
Managerial Economics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
3830

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Pre-requisite: ECON 2010. Theory and estimation of demand, production, and costs. Pricing and output decisions under different market structures, financial investment, government and business, and international business.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2010.

Course Information

Course Title
Natural Resource Economics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
AGBE2100 or ECON2010. Static and dynamic models of renewable and nonrenewable resource allocation. Application of principles of economics will identify the causes, consequences, and ways of dealing with natural resource problems, including problems associated with fisheries, forests, water problems, and land.

College/School
Business

Requisites and Restrictions

Prerequisite:
AGBE 2100 or ECON 2010.

Course Information

Course Title
Environmental Economics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: AGBE2100 or ECON2010. A detailed study of the economic foundations of Environmental Policy and common tolls used by environmental economists to measure and analyze benefits and costs of environmental regulation and consider the characteristics of efficient regulation.

College/School
Business

Requisites and Restrictions

Prerequisite:
AGBE 2100 or ECON 2010.

Course Information

Course Title
Labor Economics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECON 2010, 2020, and one of ECON 3320, 3810, or 3820. Labor problems including economics of the labor market, wages, demand and supply of labor, and unemployment.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2010, ECON 2020, and one of the following: ECON 3320, ECON 3810, or ECON 3820.

Economic Foundations of the Law

Course Information

Course Title
Econ Foundations of the Law

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ECON 2010 or consent of instructor. This course will explore the field of law and economics, using economic tools to analyze and explain the main areas of US civil law - property, torts and contracts - along with aspects of criminal and administrative law.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2010 or consent of instructor.

Course Information

Course Title
International Trade/Finance

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ECON 2010 and 2020. International trade, monetary exchange, balance of payments, and foreign investments.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2010 and ECON 2020.

Course Information

Course Title
Comparative Economic Sys

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECON 2020. Analysis of essential economic features of the economic systems.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2020.

Course Information

Course Title
Hist of Economic Thought

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECON 2020. Development of economic doctrines and schools and economic thought from the mercantilist period to the present.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2020.

Course Information

Course Title
Econ Growth & Development

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECON 2020. A critical survey of growth and strategies of economic development, including regional growth and development; historical evidence of development.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2020.

Course Information

Course Title
Econometrics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4640

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
An advanced treatment of statistical models applied to economics, including the general linear model, heteroscedasticity, autocorrelation, multi-collinearity, simultaneous equations, and other violations of OLS assumptions. Enrollment in Junior- or Senior-level ECON courses requires junior standing.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2010, ECON 2020, and ECON 3610.

Course Information

Course Title
Econometrics II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4650

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Pre-requisite: ECON 4640 or consent of instructor. Causal inference in economics. Topics include potential outcomes, randomized experiments, matching models, instrumental variables, difference-in-differences, regression discontinuity, and other panel data techniques.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 4640 (5640) or consent of instructor.

Course Information

Course Title
Game Theory

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4700

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 1830 or MATH 1845 or MATH 1910 or consent of instructor. Analysis of strategic decision-making. Sequential games, simultaneous games, mixed-strategy equilibrium, Bayesian games, signaling games, collective action games, repeated games, mechanism design, and evolutionary games.

College/School
Business

Requisites and Restrictions

Prerequisite:
MATH 1830 or MATH 1845 or MATH 1910 or consent of instructor.

Course Information

Course Title
Behavioral Economics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECON 3810 or consent of instructor. Topics in behavioral economics, both in the context of individual decisions and strategic interactions, including: heuristics and biases, prospect theory, social preferences, bounded rationality, time-inconsistent preferences, and psychological game theory.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 3810 or consent of instructor.

Course Information

Course Title
Economics Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4900

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECON 3810 and ECON 3820 or consent of instructor. A capstone class focused on reading, evaluating and conducting economic research, both classic and contemporary. Requires Senior Standing.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 3810 and ECON 3820 or consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4990

Credit Hours

Credit Hours:
1

Credit Hours:
6

Other Hours

Min:
1

Max:
6

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Directed study and research on a selected topic in economics. Available to senior economics majors on an individual basis with consent of departmental chairperson. Course may be taken more than once as topics change.

College/School
Business

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4991

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
Directed study and research on a selected topic in Economics. Course may be taken more than once as topics change.

College/School
Business

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4997

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Directed study and research on a selected topic that combines Economics and Finance. Course may be taken more than once as topics change.

College/School
Business

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECON

Course Number
4998

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Directed study and research on a selected topic that combines Economics and Marketing. Course may be taken more than once as topics change.

College/School
Business

Course Information

Course Title
Entrepreneurial Mindset

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENTR

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This introductory course provides a framework of entrepreneurial thinking and acting. Spc8ificially, this course aims to help students become more customer-oriented and opportunity-driven in acting on innovative ideas, serve as a change agent, and learn leveraging resources while mitigating and managing risks. It further provides a basic infrastructure in business, so students can accomplish the eventual transition of successfully managing financing and marketing the business venture and products/services in increasingly competitive global market places/spaces.

College/School
Business

Requisites and Restrictions

Prerequisite:
Enrollment in Junior- or Senior-level ENTR courses requires Junior Standing. All business majors must have completed the Basic Business Program.

Course Information

Course Title
Leadership on Location

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENTR

Course Number
4000

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Number Of Repeats:
2

Course Description
Students enrolled in this course will discover techniques to develop new leaders and motivate staff, the process to provide excellent customer service and to develop team collaboration, and methods to infuse low-cost- high-impact practices into daily operations. The course will feature hands-on experiences during a trip on location to innovative corporations, focusing on how these corporations deploy marketing, effective communication, and critical thinking.

College/School
Business

Syllabus
Spring XX COURSE SYLLABUS Leadership on Location.docx

Course Information

Course Title
Personal Finance

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
2000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Financial concepts and practices relevant to personal financial decision making. This course may be used as a business elective, but not as a Finance elective.

College/School
Business

Course Information

Course Title
Principles/Managerial Fin

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
3210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: ECON 2010, ECON 2020, and ACCT 2120 (or ACCT 3720 for non-business majors ONLY);
Prerequisite or corequisite: ECON 3610.
Financial theory and procedures required for the financial decision-making function of business organizations.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2010, ECON 2020, and ACCT 2120 (or ACCT 3720 for non-business majors only).

Prerequisite or corequisite:
ECON 3610

Course Information

Course Title
Intermediate Financial Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
3220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FIN 3210, ECON 3610. Designed to build on and add to FIN 3210 tools and concepts. Topics include cash flow concepts and analysis, the corporate valuation approach, financial planning, cost of capital schedules, real options, decision trees in finance, capital structure, dividend policy. Enrollment in Junior0 and Senior-level FIN courses requires Junior Standing.

College/School
Business

Requisites and Restrictions

Prerequisite:
FIN 3210. ECON 3610.

Course Information

Course Title
Principles of Real Estate

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
3410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Basic concepts, procedures, and analysis of real estate, property rights and liabilities, real estate instruments, estates, and liens.

College/School
Business

Course Information

Course Title
Commercial Banking I

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
3420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Bank operations including policy making and management of assets, liabilities and capital. Enrollment in Junior- and Senior-level FIN courses requires Junior Standing.

College/School
Business

Course Information

Course Title
Risk Management & Insurance

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
3610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Fundamentals underlying the insurance method of handling risk, including the cost and functions of insurance contracts related to business and personal decision-making.

College/School
Business

Course Information

Course Title
Internship in Finance

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
3625

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
A directed professional experience in the field of Finance.

College/School
Business

Syllabus
Example syllabus Fin 3625.doc

Requisites and Restrictions

Prerequisite:
Junior or Senior standing and consent of Finance Internship Coordinator or Department Chairperson.

Course Information

Course Title
Fundamentals of Investment

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
3830

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ECON 3610, FIN 3210, or consent of instructor. Investment alternatives, markets and techniques of security valuation and analysis with emphasis on stock markets.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 3610, FIN 3210 or consent of instructor.

Course Information

Course Title
Adv Fin Decision Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: FIN 3220, ECON 3610, and FIN 3830. Capstone individual oral presentation of written financial ratio analysis using actual firm data. Advanced time value of money applications in valuation, capital budgeting and money management. Leasing, working capital management, use of Excel in finance. Enrollment as Junior- and Senior-level FIN courses requires Junior Standing.

College/School
Business

Requisites and Restrictions

Prerequisite:
FIN 3220, ECON 3610 and FIN 3830.

Course Information

Course Title
Banking Advisory Board

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of instructor. In this course, student serve a bank partner in an advisory role. Students gain hands-on knowledge of bank operations and current trends in banking. Enrollment in Junior- and Senior-level FIN courses requires Junior Standing.

College/School
Business

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Commercial Banking II

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course serves as the capstone course in banking and provides students with an in-depth look at current challenges and opportunities faced by commercial bank managers. Contemporary regulatory issues, new products and delivery systems, and social concerns related to commercial banking are also examined. Enrollment in Junior- and Senior-level FIN courses requires Junior Standing.

College/School
Business

Requisites and Restrictions

Prerequisite:
FIN 3420 or FIN 4410

Course Information

Course Title
Real Estate Fin & Appraisal

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Lec. 3. Credit 3.Prerequisite: FIN 3210. Principles of financing real estate transactions, including valuation, sources of funds, cost of financing, and real estate appraisal. Enrollment in Junior- and Senior-level FIN courses requires Junior Standing. All business majors must have completed the Basic Business Program.

College/School
Business

Course Information

Course Title
Investment Analysis/Portf Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4460

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FIN 3830. A study of the impact of economic factors and security markets upon security and portfolio values. Geared toward students wishing to purse a carerr in financial markets.

College/School
Business

Requisites and Restrictions

Prerequisite:
FIN 3830.

Course Information

Course Title
Investment Challenge I

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4470

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: Permission of instructor. Advanced portfolio theory through actual management of a real investment portfolio. Enrollment in Junior- and Senior-level FIN courses requires Junior Standing. All business majors must have completed the Basic Business Program.

College/School
Business

Requisites and Restrictions

Prerequisite:
Permission of instructor.

Course Information

Course Title
Investment Challenge II

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4480

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: FIN 4470 and permission of instructor. Advanced portfolio theory through actual management of a real investment portfolio. Enrollment in Junior- and Senior-level FIN courses requires Junior Standing. All business majors must have completed the Basic Business Program.

College/School
Business

Requisites and Restrictions

Prerequisite:
Permission of instructor.

Course Information

Course Title
Financial Modeling

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course provides students with the skills necessary to apply modern financial theories to real world applications in both corporate finance and investments. Students will get hands-on experience implementing models from areas such as capital budgeting, financial planning, and asset valuation.

College/School
Business

Syllabus
Syllabus_Financial Modeling.pdf

Requisites and Restrictions

Prerequisite:
FIN 3210, FIN 3830, or consent of instructor.

Course Information

Course Title
Multinational Fin Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4910

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FIN 3210. This course explores financial decision-making in an international environment. The course includes examination of the internationalization decision, international financial markets, and risk management with emphasis on the foreign exchange market. Enrollment in Junior- and Senior-level FIN courses requires Junior Standing.

College/School
Business

Requisites and Restrictions

Prerequisite:
FIN 3210.

Course Information

Course Title
Integrative Case Studies/FIN

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4930

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FIN 3220. Case studies simulating the role of the modern financial manager in financial decision making.

College/School
Business

Requisites and Restrictions

Prerequisite:
FIN 3220.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4990

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Consent of departmental chairperson. Directed study and research on a selected topic in finance. Course may be taken more than once as topics change.

College/School
Business

Requisites and Restrictions

Prerequisite:
Consent of departmental chairperson.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4991

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
Directed study and research on a selected topic in Finance. Course may be taken more than once as topics change.

College/School
Business

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4997

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Directed study and research on a selected topic that combines Economics and Finance. Course may be taken more than once as topics change.

College/School
Business

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
FIN

Course Number
4999

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Directed study and research on a selected topic that combines Finance and Marketing. Course may be taken more than once as topics change.

College/School
Business

Course Information

Course Title
Practicum

Academic Level (Course Level)
Undergraduate

Course Subject Code
IBAC

Course Number
4980

Credit Hours

Credit Hours:
3

Credit Hours:
10

Other Hours

Min:
3

Max:
10

Operator:
TO

Course Description
Prerequisite: Junior or senior standing and consent of advisor. Semester-long, practical experience with international trade or commerce. Credit assigned by advisor and monitored by the IBC Executive Committee.

College/School
Business

Course Information

Course Title
International Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
IBAC

Course Number
4990

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
IBC 4990 develops students' understanding and knowledge of business practices in a foreign nation(s). Topics covered include social and cultural differences, national and regional political forces that influence business practices, and the internal economic environment and its impact on marketing, finance, organizational structure, and operations of businesses in the host country (countries).

College/School
Business

Course Information

Course Title
Practicum

Academic Level (Course Level)
Undergraduate

Course Subject Code
IBC

Course Number
4980

Credit Hours

Credit Hours:
3

Credit Hours:
10

Other Hours

Min:
3

Max:
10

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or senior standing; consent of advisor. Semester-long, practical experience with international trade or commerce. Credit assigned by advisor and monitored by the IBC Executive Committee

College/School
Business

Requisites and Restrictions

Prerequisite:
Junior or Senior standing and consent of advisor.

Course Information

Course Title
International Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
IBC

Course Number
4990

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
IBC 4990 develops students' understanding and knowledge of business practices in a foreign nation(s). Topics covered include social and cultural differences, national and regional political forces that influence business practices, and the internal economic environment and its impact on marketing, finance, organizational structure, and operations of businesses in the host country (countries).

College/School
Business

Course Information

Course Title
Entrepreneurial Mindset

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This introductory course provides a framework of entrepreneurial thinking and acting. Specifically, this course aims to help students become more customer-oriented and opportunity-driven in acting on innovative ideas, serve as a change agent, and learn leveraging resources while mitigating and managing risks. It further provides a basic infrastructure in business, so students can accomplish the eventual transition of successfully managing financing and marketing the business venture and products/services in increasingly competitive global market places/spaces.

College/School
Business

Course Information

Course Title
Services Marketing

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
3310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course will focus on service organizations, and services marketing issues to make students aware of the unique challenges involved in marketing and managing organizations in sections such as finance, health care, entertainment, hospitality, professional services, retailing, education and transportation. Some of the specific topics will include understanding service processes, learning how to manage service encounters, consumer behavior in service settings, complaint handling, pricing and positioning of services, and balancing demand and capacity.

College/School
Business

Course Information

Course Title
Principles of Marketing

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
3400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: ECON 2010. Marketing in an economic system, including marketing strategy and marketing mix variables available to the marketing manager.

College/School
Business

Requisites and Restrictions

Prerequisite:
ECON 2010.

Course Information

Course Title
Advertising

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
3430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MKT 3400. Techniques and methods of advertising, including an analysis of major media. Emphasis on case studies and special projects involving integrated advertising campaigns and trends.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400.

Course Information

Course Title
Internship in Marketing

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
3625

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Completion of MKT 3400, Junior or Senior Standing, and Consent of Marketing Internship Coordinator or Department Chairperson. A directed professional experience in the field of Marketing.

College/School
Business

Requisites and Restrictions

Prerequisite:
Completion of MKT 3400, Junior or Senior Standing, and Consent of Marketing Internship Coordinator or Department Chairperson.

Course Information

Course Title
Prof Selling & Sales Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
3650

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MKT 3400. Responsibilities and techniques of personal selling as a marketing method and of managing the professional salesforce. Course includes case studies. Enrollment in junior-or senior-level MKT courses requires junior standing.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400.

Course Information

Course Title
Entrepreneurship/Sm Business

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
3900

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MKT 3400 or consent of instructor. An introduction to the process of new venture creation and the challenges of operating and growing a small business.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400 or consent of instructor.

Course Information

Course Title
International Marketing

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MKT 3400. Focuses on the study of consumer behavior and buying cultures in all major regions of the world and relates the information to the creation of international marketing plans and strategies.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400.

Course Information

Course Title
Digital Marketing

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Pre-requisite: MKT 3400 or consent of instructor. Introduction to digital marketing. Opportunities, problems, tactics and strategies associated with incorporating digital methods into the marketing function are examined. The latest technological aspects, intricacies and dynamic nature of marketing in the online environment are emphasized. Note: Cannot receive credit for both MKT 4900 Special Topics: Digital Marketing and MKT 4130 Digital Marketing.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400

Note:
Note: "Cannot receive credit for both MKT 4900 Special Topics: Digital Marketing and MKT 4130: Digital Marketing."

Course Information

Course Title
Public Sector Advertising

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4160

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Pre-requisite: MKT 3400 or consent of instructor. Examination of current advertising campaigns in traffic safety, public health, environmental sustainability and other public policy challenges. Create, execute, and evaluate successful advertising strategies, including campaign development, media buying, and data analysis. Tools used in contemporary marketing including advertising, direct marketing, Internet and interactive marketing, sales promotion, publicity, public relations, and personal selling will be emphasized. Note: Cannot receive credit for both MKT 4900 Special Topics: Public Sector Advertising and MKT 4160 Public Sector Advertising.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400

Note:
Cannot receive credit for both MKT 4900 Special Topics: Public Sector Advertising and MKT 4160 Public Sector Advertising.

Course Information

Course Title
Marketing Analytics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MKT 3400 and ECON 3610 or consent of instructor. Application of data science to marketing decisions, with emphasis on data visualization, pricing, forecasting, market segmentation, A/B testing, conjoint analysis, retailing, and advertising.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400 and ECON 3610 or consent of instructor.

Course Information

Course Title
Design Thinking

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4205

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MKT 3400 and a senior-level course or the consent of instructor). MKT 4205 introduces students to Design Thinking processes that provide ways to transform or develop new products and services. The design process is human-centered at every step and is seemingly chaotic as design thinkers move from the stages of inspiration to ideation and implementation. Through inspiration, ideation, and implementation, students will practice framing and reframing real-life problems and solutions related to various products. They will also learn numerous tools/methods to generate, prototype, and assess alternative solutions in business, entrepreneurship, and marketing contexts while working in teams to gain awareness of cultural, strategic, and organizational issues.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400 and a senior-level course or the consent of the instructor.

Course Information

Course Title
Retail Marketing Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MKT 3400. Theory and practice of modern retail marketing. Included are merchandising, budgeting, store location and design, retail pricing decisions, product sourcing, and promotion strategies.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400.

Course Information

Course Title
Consumer Behavior

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MKT 3400. This course provides a comprehensive interdisciplinary framework of consumer behavior concepts and the processes they use to choose, use (consume), and dispose of products and services, including consumers' emotional, mental, and behavioral responses. Enables students to apply what is learned to market analysis, product/service design, marketing strategy, and control of marketing programs. Enrollment in Junior- and Senior-level FIN courses requires Junior Standing.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400.

Course Information

Course Title
Business Marketing Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MKT 3400. Study of business marketing management including industrial buying practices, governmental buying, business services, institutional marketing, modern purchasing practices, TQM decision making, and inventorying, particularly JIT.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400.

Course Information

Course Title
Marketing Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MKT 3400 and ECON 3610. Information systems and traditional research through text and cases. Enrollment in junior- or senior-level MKT courses requires junior standing. All business majors must have completed the Basic Business Program.

College/School
Business

Course Information

Course Title
Marketing Strategy

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4730

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: MKT 3400, BMGT 3510, MKT 4530 and senior standing. The role of the modern marketing manager in developing and implementing strategic and tactical marketing plans. Includes case studies and involves integrating knowledge of customers, competitors, the marketing mix, marketing research, and marketing analytics. Emphasizes an interdisciplinary approach to marketing decision-making incorporative of finance, management principles, and statistics. Enrollment in Junior- and Senior-level FIN courses requires Junior Standing.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400, BMGT 3510, MKT 3400 and senior standing.

Course Information

Course Title
Special Topics in Marketing

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4900

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisites: MKT 3400 and approval of the instructor. Selected current topics in marketing. Course may be taken more than once as topics change.

College/School
Business

Requisites and Restrictions

Prerequisite:
MKT 3400 and approval of the instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4991

Credit Hours

Credit Hours:
1

Credit Hours:
2

Lecture Hours

Min:
1

Max:
2

Course Description
Directed study and research on a selected topic in Marketing. Course may be taken more than once as topics change.

College/School
Business

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4998

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Directed study and research on a selected topic that combines Economics and Marketing. Course may be taken more than once as topics change.

College/School
Business

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MKT

Course Number
4999

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Directed study and research on a selected topic that combines Economics and Marketing. Course may be taken more than once as topics change.

College/School
Business

Course Information

Course Title
International Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
WCB

Course Number
4990

Credit Hours

Credit Hours:
3

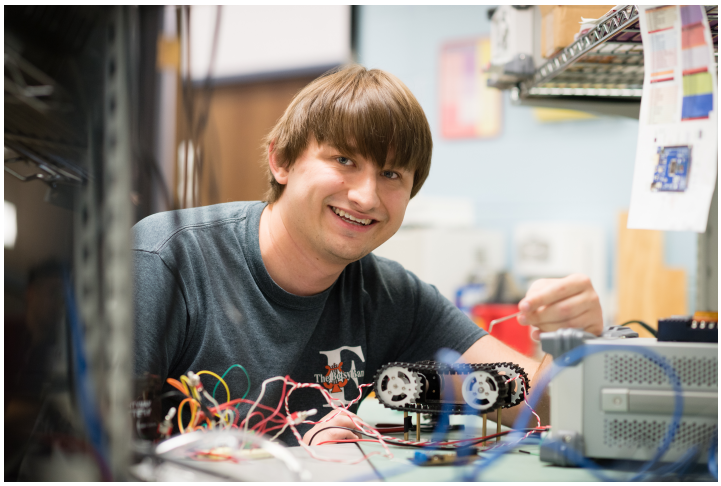
Lecture Hours

Min:
3

Course Description
WCB 4990 develops students¿ understanding and knowledge of business practices in a foreign nation(s). Topics covered include social and cultural differences, national and regional political forces that influence business practices, and the internal economic environment and its impact on marketing, finance, organizational structure, and operations of businesses in the host country (countries).

College/School
Business

Electrical and Computer Engr Department



Professor Bhattacharya, Interim Chairperson; Professor Alouani, JW Bruce, Lori Bruce (Provost), MacKenzie (Interim Associate Dean of Research), Mahajan (Director of Center for Energy Systems Research), Ojo, Radman, Yelamarthi (Associate Dean of Academic Affairs); Associate Professor Austen, Elfouly, Hasan, Mahmoud; Assistant Professor Rizvi, Chen, Van Neste; Lecturer Roberts

Programs

CMPE-BSCMPE - Computer Engineering, B.S.CMP.E.

Program Overview

Program Long Title
Computer Engineering, B.S.CMP.E.

College/School
Engineering

Department(s)
Electrical and Computer Engr

Degree Map

Degree Map Name
Degree Plan - Computer Engineering, B.S.CMP.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ECE1000 - Explorations in Electrical and Computer Engineering

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- FIN2000 - Personal Finance
  OR
- CSC2220 - Data Science & AI for Everyone
  OR
- CSC2570 - Intro to Cybersecurity/Privacy

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- ECE2140 - Intro to Digital Systems

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- ECE2050 - Circuits and Electronics I

Actual Credits 4

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- CSC2400 - Design of Algorithms

Actual Credits 3

Requirement Select
- ECE3050 - Circuits and Electronics II

Actual Credits 4

Requirement Select
- MATH2610 - Discrete Structures
  OR
- CSC2700 - Discrete Structures for CSC

Actual Credits 3

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- ECE3130 - Microcomputer Systems

Actual Credits 4

Requirement Select
- ECE3140 - Digital System Design

Actual Credits 3

Requirement Select
- ECE3330 - Signals and Systems

Actual Credits 4

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- CSC4100 - Operating Systems

Actual Credits 3

Requirement Select
- CmpE Breadth Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- ECE3920 - Professional Issues in ECE

Actual Credits 1

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- CmpE Depth Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- ECE4140 - Embedded System Design

Actual Credits 3

Requirement Select
- ECE4961 - Capstone Design I

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	16

Requirement Select
- Career Elective
  (Generic)

Actual Credits 3

Requirement Select
- CSC4200 - Computer Networks

Actual Credits 3

Requirement Select
- Elective
  (Generic)

Actual Credits 1

Requirement Select
- ECE4120 - Fundamentals/Comp Design

Actual Credits 3

Requirement Select
- ECE4971 - Capstone Design II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- 1 Select from the University approved list.

  2 Select from the ECE Department approved list. (Generic)

Actual Credits -

CMPE-HSS - Computer Engineering, Hardware and System Security Concentration, B.S.CMP.E.

Program Overview

Program Long Title
Computer Engineering, Hardware and System Security Concentration, B.S.CMP.E.

College/School
Engineering

Department(s)
Electrical and Computer Engr

Degree Map

Degree Map Name
Degree Plan - Computer Engineering, Hardware and System Security Concentration, B.S.CMP.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ECE1000 - Explorations in Electrical and Computer Engineering

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- FIN2000 - Personal Finance
  OR
- CSC2220 - Data Science & AI for Everyone
  OR
- CSC2570 - Intro to Cybersecurity/Privacy

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- ECE2140 - Intro to Digital Systems

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- ECE2050 - Circuits and Electronics I

Actual Credits 4

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- CSC2400 - Design of Algorithms

Actual Credits 3

Requirement Select
- ECE3050 - Circuits and Electronics II

Actual Credits 4

Requirement Select
- MATH2610 - Discrete Structures
  OR
- CSC2700 - Discrete Structures for CSC

Actual Credits 3

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- ECE3130 - Microcomputer Systems

Actual Credits 4

Requirement Select
- ECE3140 - Digital System Design

Actual Credits 3

Requirement Select
- ECE3330 - Signals and Systems

Actual Credits 4

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- CSC4200 - Computer Networks

Actual Credits 3

Requirement Select
- CSC4575 - Cryptography/Network Security

Actual Credits 3

Requirement Select
- ECE3150 - Intro to Hardware Security

Actual Credits 3

Requirement Select
- ECE3920 - Professional Issues in ECE

Actual Credits 1

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- CmpE Hardware and System Security Concentration Elective
  (Generic)

Actual Credits 3

Requirement Select
- ECE4140 - Embedded System Design

Actual Credits 3

Requirement Select
- ECE4150 - Cyber-Physical Hdwr Security

Actual Credits 3

Requirement Select
- ECE4961 - Capstone Design I

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	16

Requirement Select
- ECE4120 - Fundamentals/Comp Design

Actual Credits 3

Requirement Select
- ECE4830 - Machine Learning App in ECE
  OR
- CSC4240 - Artificial Intelligence

Actual Credits 3

Requirement Select
- ECE4971 - Capstone Design II

Actual Credits 3

Requirement Select
- CmpE Hardware and System Security Concentration Elective
  (Generic)

Actual Credits 3

Requirement Select
- Elective
  (Generic)

Actual Credits 1

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- 1 Select from University approved list.

  2 Select from ECE Department approved list.
  (Generic)

Actual Credits -

ECEM-MIN - Electrical and Computer Engineering Minor

Program Overview

Program Long Title
Electrical and Computer Engineering Minor

College/School
Engineering

Department(s)
Electrical and Computer Engr

Requirements

Simple Requirements

Electrical and Computer Engineering Minor

Type
Completion Requirement

Electrical and Computer Engineering (ECEM) Minor

Curriculum :

• ECE 2050 - Circuits and Electronics I Credit: 4.

• ECE 3130 - Microcomputer Systems Credit: 4.

• A minimum of seven credit hours of ECE courses chosen from: ECE 2140, all ECE 3000-level courses except ECE 3920, all ECE 4000-level courses.

Note:

The minor is not available to Computer Engineering and Electrical Engineering majors.

EE-BSEE - Electrical Engineering, B.S.E.E.

Program Overview

Program Long Title
Electrical Engineering, B.S.E.E.

College/School
Engineering

Department(s)
Electrical and Computer Engr

Degree Map

Degree Map Name
Degree Plan - Electrical Engineering, B.S.E.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- ECE1000 - Explorations in Electrical and Computer Engineering

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- FIN2000 - Personal Finance
  OR
- CSC2220 - Data Science & AI for Everyone
  OR
- CSC2570 - Intro to Cybersecurity/Privacy

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- ECE2140 - Intro to Digital Systems

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- ECE2050 - Circuits and Electronics I

Actual Credits 4

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ECE3050 - Circuits and Electronics II

Actual Credits 4

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	18

Requirement Select
- ECE3130 - Microcomputer Systems

Actual Credits 4

Requirement Select
- ECE3330 - Signals and Systems

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- Career Elective
  (Generic)

Actual Credits 3

Requirement Select
- ECE3510 - Electromagnetic Fields I

Actual Credits 3

Requirement Select
- ECE3920 - Professional Issues in ECE

Actual Credits 1

Requirement Select
- EE Breadth Electives (9 cr.)
  (Generic)

Actual Credits 9

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- ECE4050 - Circuits and Electronics III

Actual Credits 3

Requirement Select
- ECE4961 - Capstone Design I

Actual Credits 3

Requirement Select
- EE Depth Elective (Generic)

Actual Credits 3

Requirement Select
- EE Breadth Elective (Generic)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- ECE4971 - Capstone Design II

Actual Credits 3

Requirement Select
- EE Depth Elective (Generic)

Actual Credits 3

Requirement Select
- Elective (Generic)

Actual Credits 3

Requirement Select
- Career Elective (Generic)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

EE-MECH - Electrical Engineering, Mechatronics Concentration, B.S.E.E.

Program Overview

Program Long Title
Electrical Engineering, Mechatronics Concentration, B.S.E.E.

College/School
Engineering

Department(s)
Electrical and Computer Engr

Degree Map

Degree Map Name
Degree Plan - Electrical Engineering, Mechatronics Concentration, B.S.E.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ECE1000 - Explorations in Electrical and Computer Engineering

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- FIN2000 - Personal Finance
  OR
- CSC2220 - Data Science & AI for Everyone
  OR
- CSC2570 - Intro to Cybersecurity/Privacy

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- ECE2140 - Intro to Digital Systems

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- ENGR1110 - Engineering Graphics

Actual Credits 2

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	18

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- ECE2050 - Circuits and Electronics I

Actual Credits 4

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- CEE2110 - Statics

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ECE3050 - Circuits and Electronics II

Actual Credits 4

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	18

Requirement Select
- ECE3130 - Microcomputer Systems

Actual Credits 4

Requirement Select
- ECE3330 - Signals and Systems

Actual Credits 4

Requirement Select
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Requirement Select
- ME2330 - Dynamics

Actual Credits 3

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	12

Requirement Select
- ECE3210 - Control System Analysis

Actual Credits 3

Requirement Select
- ECE3260 - Control System Lab

Actual Credits 1

Requirement Select
- ECE3270 - Programmable Logic Controller Laboratory

Actual Credits 1

Requirement Select
- ECE3920 - Professional Issues in ECE

Actual Credits 1

Requirement Select
- ECE3510 - Electromagnetic Fields I

Actual Credits 3

Requirement Select
- ME3610 - Dynamics of Machinery

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- ECE4050 - Circuits and Electronics III

Actual Credits 3

Requirement Select
- ECE4961 - Capstone Design I

Actual Credits 3

Requirement Select
- ME4140 - Intro to Robotics

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select
- ECE4971 - Capstone Design II

Actual Credits 3

Requirement Select
- EE Mechatronics Concentration Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Elective (2 cr.)
  (Generic)

Actual Credits 2

Requirement Select
- EE Mechatronics Concentration Electives: ECE 3610, ECE 3660, ECE 4010, ECE 4140, ECE 4210, ECE 4630, ECE 4640, and VE 3500.
  (Generic)

Actual Credits -

EE-VE - Electrical Engineering, Vehicle Engineering Concentration, B.S.E.E.

Program Overview

Program Long Title
Electrical Engineering, Vehicle Engineering Concentration, B.S.E.E.

College/School
Engineering

Department(s)
Electrical and Computer Engr

Degree Map

Degree Map Name
Degree Plan - Electrical Engineering, Vehicle Engineering Concentration, B.S.E.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ECE1000 - Explorations in Electrical and Computer Engineering

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- FIN2000 - Personal Finance
  OR
- CSC2220 - Data Science & AI for Everyone
  OR
- CSC2570 - Intro to Cybersecurity/Privacy

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- ECE2140 - Intro to Digital Systems

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- ECE2050 - Circuits and Electronics I

Actual Credits 4

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ECE3050 - Circuits and Electronics II

Actual Credits 4

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	18

Requirement Select
- ECE3130 - Microcomputer Systems

Actual Credits 4

Requirement Select
- ECE3330 - Signals and Systems

Actual Credits 4

Requirement Select
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Requirement Select
- VE3400 - Intro to Automotive Systems

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- ECE3210 - Control System Analysis

Actual Credits 3

Requirement Select
- ECE3510 - Electromagnetic Fields I

Actual Credits 3

Requirement Select
- ECE3610 - Intro to Power Systems

Actual Credits 3

Requirement Select
- ECE3920 - Professional Issues in ECE

Actual Credits 1

Requirement Select
- VE3500 - Sensors, Transducers,Instrmn

Actual Credits 3

Requirement Select
- VE4050 - Autonomous Vehicles

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- ECE4050 - Circuits and Electronics III

Actual Credits 3

Requirement Select
- EE Vehicle Engineering Concentration Electives (6 cr.) (Generic)

Actual Credits 6

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- VE4102 - Senior Design Project I (3 cr) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Career Elective (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- VE4202 - Senior Design Project II (3 cr) (Generic)

Actual Credits 3

Requirement Select

- VE4500 - Reliability & Quality Engr

Actual Credits 3

Requirement Select

- ECE Vehicle Engineering Concentration Electives: ECE 3140, ECE 3150, ECE 3710, ECE 4010, ECE 4020, ECE 4140, ECE 4210, or ECE 4630.
  (Generic)

Actual Credits -

Courses

Explorations in Electrical and Computer Engineering

Course Information

Course Title
Explorations in ECE

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
1000

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: C or better in either MATH 1904 or MATH 1910 (MATH 1904 or MATH 1910 may be taken concurrently). Introduction to the profession, college, department, and program. Survey of ECE technical knowledge and tools crucial in early ECE courses with a focus on critical thinking. Introduction to engineering design, teamwork, and technical communication.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Prerequisite: C or better in either MATH 1904 or MATH 1910 (MATH 1904 or MATH 1910 may be taken concurrently).

Course Information

Course Title
Electrical Engineering Lab I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
2011

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Prerequisite: Consent of Instructor and C or better in MATH 1920. Introduction to electrical and electronic components, circuits, test equipment, and measurement techniques.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor and C or better in MATH 1920.

Course Information

Course Title
Circuits and Electronics I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
2050

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: C or better in MATH 1920. Electric circuit quantities and components, circuit theorems, dc and ac circuit analysis, first-order transient response, operational amplifiers, circuit simulation.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in MATH 1920.

Course Information

Course Title
Intro to Digital Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
2140

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: C or better in either MATH 1904 or MATH 1910 (MATH 1904 or MATH 1910 may be taken concurrently). Analysis and design of digital systems. Number systems; Boolean algebra; combinational and sequential logic circuits; state machine design; register-transfer level design; memory organization; and introduction to digital hardware design and field-programmable gate arrays.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Prerequisite: C or better in either MATH 1904 or MATH 1910 (MATH 1904 or MATH 1910 may be taken concurrently).

Course Information

Course Title
Circuits and Electronics II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3050

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: C or better in ECE 2050 and C or better in MATH 2120. Second-order transient response, resonance, semiconductor devices, diode and transistor circuits, amplifier and switching applications.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 2050 and C or better in MATH 2120.

Course Information

Course Title
Microcomputer Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3130

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: C or better in CSC 1300. Microcomputer system architecture. Software/hardware analysis. Programming microcomputer system using Assembly and C languages. Interface microcontroller with hardware subsystem for engineering applications.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 1300.

Course Information

Course Title
Digital System Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3140

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: C or better in ECE 2140 or C or better in both ECE 2110 and ECE 3160. Hierarchical, modular design of complex digital systems; synchronous and asynchronous sequential circuit analysis and design, testability, and circuit simulation for design verification and timing analysis. EDA tools, hardware-description languages, logic synthesis, and field programmable gate arrays.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 2140 or C or better in both ECE 2110 and ECE 3160.

Course Information

Course Title
Intro to Hardware Security

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in either ECE 3130 or CSC 3410. Background knowledge of Electronics and System on Chip, Hardware Trojans, Electronics Supply Chain, Side Channel Attacks, Countermeasures against Hardware Attacks, Hardware Security Primitives.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in either ECE 3130 or CSC 3410.

Course Information

Course Title
Digital Systems Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3160

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Prerequisite: C or better in ECE 2011 and C or better in ECE 2110. Hardware considerations andperformance of combinational and sequential digital devices including gates, flip-flops, multiplexers, and decoders.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 2011 and C or better in ECE 2110.

Course Information

Course Title
Control System Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3260

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Prerequisite: C or better in ECE 3210 (ECE 3210 may be taken concurrently). Simulation of dynamic systems. Demonstration of control system analysis and design techniques using hardware experiments.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 3210 (ECE 3210 may be taken concurrently).

Course Information

Course Title
Control System Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 2110 and C or better in either ECE 3330 or ME 3050. Modern and classical methods of control system analysis of continuous-time systems. Introduction to control systems design tools.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
PHYS 2110 and C or better in any of ECE 3010, ECE 3330, or ME 3050.

Programmable Logic Controller Laboratory

Course Information

Course Title
Prgramble Logic Controller Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3270

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Prerequisite: C or better in either CSC 1300 or ENGR 1120. Introduction to Ladder Logic Programming, Relays, PLC in Automation & Control, Safety, Hardware Troubleshooting, Hands-on laboratory experiments and projects.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in either CSC 1300 or ENGR 1120.

Course Information

Course Title
Signals and Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3330

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Course Description
Prerequisite: C or better in MATH 2120; and either C or better in ECE 2050 or C or better in both ECE 2001 and ECE 2020. Time-domain and frequency-domain analysis of signals and systems, Fourier series, Fourier transform, Laplace transform and Z transform and their applications, Analog filters. Signal sampling and reconstruction, Design and implementation of analog and digital filters.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in MATH 2120; and either C or better in ECE 2050 or C or better in both ECE 2001 and ECE 2020.

Course Information

Course Title
Electromagnetic Fields I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 2120 and C or better in MATH 2110. Development of Maxwell 's equations for electric and magnetic fields. Electromagnetic properties of materials. Wave equation, plane waves, and Lorentz force law.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
PHYS 2120 and C or better in MATH 2110.

Course Information

Course Title
Physical Electronics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3540

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 2120. Quantum and wave theory in metals and semiconductors, carrier density, and current relations. Models for basic semiconductor devices.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
PHYS 2120.

Course Information

Course Title
Intro to Power Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 2120 and C or better in either ECE 2020 or ECE 2050. Overview of electric power systems, magnetic circuits and transformers, electromechanical energy conversion, rotating machines, power system operation and control, and current issues in power systems.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
PHYS 2120 and C or better in either ECE 2020 or ECE 2050.

Course Information

Course Title
Electric Power Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3660

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Prerequisite: C or better in ECE 3610. Operation of various power system components, design tests of transformers, speed control characteristics of various types of motors and generators, and computer simulation of power system operation.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 3610.

Course Information

Course Title
Intro/Telecommunications

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in either ECE 3010 or ECE 3330. Introduction to analog and digital communication systems: modulation and demodulation, signal spectra, coding for data compression and error correction.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in either ECE 3010 or ECE 3330.

Course Information

Course Title
Professional Issues in ECE

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
3920

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisite: Junior Standing, C or better in one of ECE 1000, ECE 1020, or ECE 2010; C or better in either COMM 2025 or PC 2500. Professional topics in Engineering, verbal technical communications.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Junior Standing, C or better in one of ECE 1000, ECE 1020, or ECE 2010, C or better in either COMM 2025 or PC 2500.

Course Information

Course Title
Analog Electronic Circuits

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in either ECE 3050 or ECE 3300 and C or better in either ECE 3010 or ECE 3330. Frequency response, multi-stage amplifiers, feedback, power output stages, circuit design.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in either ECE 3050 or ECE 3300 and C or better in either ECE 3010 or ECE 3330.

Course Information

Course Title
Digital Signal Processing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: C or better in CSC 1310, C or better in either ECE 2110 or ECE 2140, C or better in either ECE 3020 or ECE 3330, and C or better in ECE 3130. Theory and practice of discrete-time signals and systems, A/D and D/A conversion, filter design, DSP Architecture and implementation, programming, DSP applications.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Prerequisite: C or better in CSC 1310, C or better in either ECE 2110 or ECE 2140, C or better in either ECE 3020 or ECE 3330, and C or better in ECE 3130.

Course Information

Course Title
Circuits and Electronics III

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in ECE 2110 or ECE 2140, C or better in ECE 3050, C or better in ECE 3130, C or better in ECE 3330, C or better in ECE 3510, and C or better in MATH 3470. System design, modeling, mixed-signal circuits, component variations, reliability.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in either ECE 2110 or ECE 2140, C or better in ECE 3050, C or better in ECE 3130, C or better in ECE 3330, C or better in ECE 3510, and C or better in MATH 3470.

Course Information

Course Title
Fundamentals/Comp Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in ECE 3130 and C or better in either ECE 3140 or ECE 4110. Continuation of digital system design concepts and applications with emphasis on computer hardware design: CPU sequencers, arithmetic/logic units, fixed and floating point arithmetic implementations, and computer peripheral interfacing, utilizing programmable logic.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 3130 and C or better in either ECE 3140 or ECE 4110.

Course Information

Course Title
Intro to Digital VLSI

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in either ECE 2110 or ECE 2140; and C or better in either ECE 3050 or ECE 3300. Analysis, design and layout of complex digital integrated circuits in MOS technology. The course emphasizes design through projects and requires extensive use of simulation and layout VLSI CAD tools.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in either ECE 2110 or ECE 2140; and C or better in either ECE 3050 or ECE 3300.

Course Information

Course Title
Embedded System Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4140

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: C or better in CSC 1310, C or better in either ECE 2110 or ECE 2140, C or better in ECE 3130. Basic hardware and software concepts in the analysis and design of embedded systems, peripheral interfaces and performance analysis with hands-on design project.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Prerequisite: C or better in CSC 1310, C or better in either ECE 2110 or ECE 2140, C or better in ECE 3130.

Course Information

Course Title
Cyber-Physical Hdwr Security

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in CSC 1310, C or better in ECE 3150. Topics in Cyber-Physical System (CPS) hardware security, including Internet of Thins (IoT), Smart Grid, Vehicular ad-hoc Network (VANet), Autonomous Vehicles, Artificial Intelligence of Things (AIoT).

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 1310, C or better in ECE 3150.

Course Information

Course Title
Control System Design I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Design of compensators using frequency domain techniques; Design projects with hardware implementation.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 3210.

Course Information

Course Title
Mech & Intell Machines Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4370

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Cross-listing: ME 4370 (5370)Prerequisite: C or better in ECE 3130. Mechatronics; number systems; microcontroller technology and architecture of 8-bit microcontrollers (e.g., Motorola MC68HC 11O); assembly language programming; AID and DIA conversion; parallel I/0; programmable timer operation; interfacing sensors and actuators; applications; and team project on design and implementation of a mechatronic system.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 3130.

Course Information

Course Title
Electromagnetic Fields II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in ECE 3510. Polarization, Poynting's vector, transmission lines, waveguides, and radiation.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 3510.

Course Information

Course Title
Optoelectronic Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in ECE 3540. Device theory for optical communication and instrumentation systems.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 3540.

Course Information

Course Title
Power System Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in ECE 3610. Power system components modeling in steady state, per unit calculations, transmission line steady state operation, power flow analysis, economic dispatch, applications of commercial software.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 3610.

Course Information

Course Title
Power Sys Oper & Control

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in ECE 4610 (5610). Symmetrical components, fault analysis, system protection, transient stability, power system controls including: automatic generation control and voltage regulation.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 4610 (5610).

Course Information

Course Title
Power Electronics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in either ECE 3050 or ECE 3300; and C or better in ECE 3610. Uncontrolled and controlled rectifiers, voltage controllers, chopper, dc motor control, pulse-width modulation inverters, induction motor control, and power supplies.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in either ECE 3050 or ECE 3300; and C or better in ECE 3610.

Course Information

Course Title
Principles/Telecommunications

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in ECE 3710 and C or better in MATH 3470. Performance of analog and digital communication systems in the presence of noise.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 3710 and C or better in MATH 3470.

Course Information

Course Title
Telecomm Systems Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in ECE 3710, C or better in MATH 3470. Link budget, synchronization, frequency synthesis, receiver architecture, noise and distortion, error correction codes, spread-spectrum systems.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 3710 and C or better in MATH 3470.

Course Information

Course Title
Machine Learning App in ECE

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4830

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in either CSC 1300 or ENGR 1120, C or better in MATH 2010, C or better in MATH 3470. Fundamentals of machine learning with emphasis on practical applications to electrical and computer engineering problems. Supervised learning (linear and logistic regression, decision trees, and neural networks), unsupervised learning.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in either CSC 1300 or ENGR 1120, C or better in MATH 2010, C or better in MATH 3470.

Course Information

Course Title
Research Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4931

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequiste: Consent of instructor. Development of research proposal including problem definition, literature review, and identification of potential research approaches.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Research Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4932

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Consent of instructor. Execution of research proposal developed in ECE 4931, culminating in a final report including experimental or simulation results.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Research Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4933

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Development of research proposal including problem definition, literature review, and identification of potential research approaches. Execution of research proposal developed, culminating in a final report including experimental or simulaton results.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Capstone Design I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4961

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
4

Repeatable for Credit:
No

Course Description
Prerequisite: C or better in CSC 1310, C or better in either ECE 2110 or ECE 2140; C or better in either ECE 3050 or both of ECE 3060 and ECE 3300; C or better in ECE 3130; C or better in either ECE 3010 or ECE 3330; C or better in ECE 3920; C or better in MATH 2010; C or better in MATH 3470; Senior Standing; and C or better in any of MATH 2110, MATH 2610, or CSC 2700. The first in a sequence of two capstone design project courses. Student teams will complete a comprehensive system design project. Teamwork, leadership, project planning and management, specification, budgeting, design review, subsystem development, testing, weekly reporting, documentation, and oral presentation.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Prerequisite: C or better in CSC 1310, C or better in either ECE 2110 or ECE 2140; C or better in either ECE 3050 or both of ECE 3060 and ECE 3300; C or better in ECE 3130; C or better in either ECE 3010 or ECE 3330; C or better in ECE 3920; C or better in MATH 2010; C or better in MATH 3470; Senior Standing; and C or better in any of MATH 2110, MATH 2610, or CSC 2700.

Course Information

Course Title
Capstone Design II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4971

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: C or better in ECE 4961. The second in a sequence of two senior capstone design project courses. Student teams will complete a comprehensive system design project. Teamwork, leadership, project planning and management, specification, budgeting, design review, implementation, testing, weekly reporting, documentation, and oral presentation.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in ECE 4961.

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ECE

Course Number
4990

Credit Hours

Credit Hours:
1

Credit Hours:
6

Other Hours

Min:
1

Max:
6

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Current topics in electrical engineering in the form of reading course or an experimental lecture course. (Because of the impossibility of duplicating the conditions of a special topic(s), this course may not be repeated for the improvement of a grade.)

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Consent of instructor.

English Department

Professor Null, Interim Chairperson; Professors Baker, Bounds, Burduck, Laird, McQuail, Null, Pelton, Pickering, Williams; Associate Professors Ductan, Hunt, Ramler; Assistant Professors Donegan, Gray, Hoover; Instructors Fisk, Robinson, Smith; Lecturers Henry, Moynihan, Stenson

English

The English language and literature curriculum are designed to improve students' skills in writing, critical reading, and thinking; to enrich their cultural experience; and to prepare them for all professions requiring a high level of expression, imagination, and intellectual activity, including creative writing, editing, teaching, law, politics, and management.

The English major includes five concentrations: Literature, Creative Writing, Professional and Technical Communication, Rhetoric and Language, and Theatre. All are designed to prepare students for careers that require the ability to think critically, write clearly and imaginatively, and understand diverse cultural contexts. The Literature curriculum develops strong critical and textual skills, and allows students to discover great literary works of the past and present, providing an excellent foundation for graduate study in English and related fields. In the Writing concentration students explore the arts of creative expression and rhetorical discourse, grounded in the study of literary traditions. The concentration in Professional Communication provides students with knowledge of skills, strategies, and theories necessary for employment in various workplace and technological settings, with options in Corporate Culture and Scientific and Technical Writing. In the Theatre program students focus on the literary traditions and performance arts that come together in the theatrical experience, preparing students for lifelong engagement with the arts while providing a solid foundation for graduate study or any profession that requires teamwork and creativity.

Programs

EDP-CER - Editing and Publishing Certificate

Program Overview

Program Long Title
Editing and Publishing Certificate

College/School
Arts and Sciences

Department(s)
English

Requirements

Simple Requirements

Editing and Publishing Certificate

Type
Completion Requirement

Core Courses

Complete ALL of the following Courses:
- ENGL4460 - Lit Mag Editing/Iris Review
- PC4940 - Technical Editing

Publishing Internship

Complete ALL of the following Courses:
- PC4850 - Internship
  OR ENGL4990 - Internship

Elective Courses (Choose 9 Hours from the List below):

Earn at least 9 credits from the following:
- JOUR4360 - Magazine Production/Dsgn
- JOUR4710 - Literary Journalism
- JOUR4830 - Feature Writing
- JOUR4930 - Advanced Copy Editing
- ENGL4430 - Creative Writing: Fiction
- ENGL4440 - Creative Writing: Essay
- ENGL4450 - Creative Writing: Poetry
- PC4990 - Bus/Grant Proposal Writing
- ENGL4983 - Topics
- ENGL4950 - Topics in Prof/Tech Comm
  OR PC4950 - Topics in Prof/Tech Comm
- ENGL4470 - Topics in Adv Creative Writing

Under the direction of a certificate advisor, students will complete an e-Portfolio that includes at least four sample projects from courses they completed (such as an edited manuscript taken through several stages, a grant or business proposal intended for a publishing project, or an editorial statement) and their internship critical reflection, including a discussion about how the student plans to apply knowledge gained through the Certificate to diverse audiences and communication contexts. Students will upload these documents to a non-University site so that their work will be accessible following graduation. Each student will arrange to present their e-Portfolio to their peers during the last semester in which they are talking an ENGL or PC course required to complete the Certificate, in consultation with the Certificate advisor.

Note:

1. Prerequisites for PC 4940 (5940) and ENGL 4460 (5460) may be waived by the course instructor on a case by case basis.
2. Prerequisites for JOUR 4710 (5710), 4830 JOUR (5830), and JOUR 4930 (5930) may be waived by the course instructor on a case by case basis..
3. Topics courses ENGL 4983 (5983), ENGL/PC 4950 (5950), and ENGL 4470 (5470) count toward the Certificate credit requirement with approval of the Certificate advisor and when at least 50% of course content is related to editing or publishing.

ENG-CW - English, Creative Writing Concentration, B.A.

Program Overview

Program Long Title
English, Creative Writing Concentration, B.A.

College/School
Arts and Sciences

Department(s)
English

Requirements

Simple Requirements

English, Creative Writing Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core -Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (4 hours)

Earn at least 4 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (9 hours)

Earn at least 9 credits from the following:
- Humanities/Cultural Expression (FFHC)

ENGL 2330 (required) fulfills 3 of the 9 required credits.

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

English, Creative Writing Concentration Core

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- ENGL1100 - English Explorations
- ENGL2400 - Intro to Creative Writing
- ENGL2330 - Topics in World Literature
- ENGL3000 - Intro/Engl Method-Resrch
- ENGL3810 - British Literature I
- ENGL3820 - British Literature II
- ENGL3910 - American Literature I
- ENGL3920 - American Literature II
- ENGL4121 - Shakespeare
- ENGL4995 - Senior Colloquium

Students in the Creative Writing Concentration take 12 hours from the following courses: ENGL 4430 (5430), ENGL 4440 (5440), ENGL 4450 (5450), ENGL 4460, ENGL 4470 (5470), ENGL 4620 (5620).

Students choose courses from the list of approved ENGL courses as indicated below, for a total of 18 hours :

Choose one from the British Literature Block: ENGL 4111 (5111), ENGL 4130 (5130), ENGL 4140 (5140), ENGL 4210 (5210), ENGL 4221 (5221), ENGL 4231 (5231), ENGL 4240 (5240)

Choose one from the American Literature Block: ENGL 4310 (5310), ENGL 4320 (5321), ENGL 4330 (5330), ENGL 4340 (5340), ENGL 4830 (5830), ENGL 4712 (5712), ENGL 4713 (5713)

Choose one from the Language Block: ENGL 4511 (5511), ENGL 4521 (5521), ENGL 4531 (5531), ENGL 4541 (5541), ENGL 4561 (5561).

The remaining 9 hours of upper-division ENGL courses must be taken from any ENGL courses 3000 or above EXCEPT core courses.

English Major Foreign Language Requirement

Foreign Language Requirement:

FREN 1010 and FREN 1020 and

FREN 2010 and FREN 2020 (C or better required)

or

GERM 1010 and GERM 1020 and

GERM2010 and GERM2020 (C or better required)

or

SPAN 1010 and SPAN 1020 and

SPAN2010 and SPAN2020 (C or better required)

Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses.

Additional elective hours may be required if students do not take FREN/GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.

Elective Credits

Electives (13 hours)
Additional free electives are needed to complete the required 120 earned hours.

Additional Comments:
Students in the Creative Writing Concentration can also have a concentration in Professional and Technical Communication by using elective hours and three additional credit hours to complete 24 credit hours from the following courses (the nine credit hours from the Professional Communication Core are required): • PC 2500 Communicating in the Professions • PC 3250 Professional Communication I • PC 4850 (5850) Internship and 15 additional hours from the following: • PC 3500 - Rhetoric and the Internet • PC 3700 - Information Design in the Professions • PC 3750 - Ethics in the Professions • PC 4850 (5850) - Internship • PC 4940 (5940) - Technical Editing • PC 4950 (5950) - Topics in Professional and Technical Communication • PC 4970 (5970) Professional Communication II • PC 4990 Business and Grant Proposal Writing 3 When necessary, a committee of the instructor of record, the department chair, and the literature concentration advisor will determine if and how courses with primarily Anglophone Literature fit into the existing curriculum for the British/American blocks. Suitably designated courses may be substituted for the courses currently listed in those blocks, contingent upon approval of the majority of the committee.

Degree Map

Degree Map Name
Degree Plan - English, Creative Writing Concentration, B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Foreign Language (Generic)

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- ENGL2400 - Intro to Creative Writing

Actual Credits 3

Requirement Select
- Foreign Language (Generic)

Actual Credits 3

Requirement Select
- ENGL1100 - English Explorations

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Foreign Language/Elective (Generic)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits

Sophomore Year	Second Semester	16

Requirement Select
- ENGL3000 - Intro/Engl Method-Resrch

Actual Credits 3

Requirement Select
- ENGL3810 - British Literature I

Actual Credits 3

Requirement Select
- Electives (4 cr)
  (Generic)

Actual Credits 4

Requirement Select
- Foreign Language/Elective
  (Generic)

Actual Credits 3

Requirement Select
- English (Approved Course) - 3 cr.
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- ENGL3820 - British Literature II

Actual Credits 3

Requirement Select
- English approved courses
  (Generic)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- ENGL3910 - American Literature I

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- ENGL3920 - American Literature II

Actual Credits 3

Requirement Select
- ENGL4121 - Shakespeare

Actual Credits 3

Requirement Select
- English (approved courses) - 6 cr.
  (Generic)

Actual Credits 6

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- English Approved courses (12 cr.)
  (Generic)

Actual Credits 12

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- ENGL4995 - Senior Colloquium

Actual Credits 3

Requirement Select
- English (approved courses) - 6 cr.
  (Generic)

Actual Credits 6

Requirement Select

- Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses. Additional elective hours may be required if students do not take FREN/ GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.
  (Generic)

Actual Credits -

Requirement Select

- Students in the Creative Writing Concentration take 12 hours from the following courses: ENGL 4430 (5430), ENGL 4440 (5440), ENGL 4450 (5450), ENGL 4460, ENGL 4470 (5470), ENGL 4620 (5620). ENGL 4430 (5430), ENGL 4440 (5440), and ENGL 4450 (5450) and ENGL 4470 (5470) may be repeated for credit provided the content is different each time. ENGL 4460 may be repeated once provided the content is different. Students choose courses from the list of approved ENGL courses as indicated below, for a total of 18 hours 2 Choose one from the British Literature Block: ENGL 4111 (5111), ENGL 4130 (5130), ENGL 4140 (5140), ENGL 4210 (5210), ENGL 4221 (5221), ENGL 4231 (5231), ENGL 4240 (5240) Choose one from the American Literature Block: ENGL 4310 (5310), ENGL 4320 (5321), ENGL 4330 (5330), ENGL 4340 (5340), ENGL 4830 (5830), ENGL 4712 (5712), ENGL 4713 (5713) Choose one from the Language Block: ENGL 4511 (5511), ENGL 4521 (5521), ENGL 4531 (5531), ENGL 4541 (5541), ENGL 4561 (5561) The remaining 9 hours of upper-division ENGL courses must be taken from any ENGL courses 3000 or above EXCEPT core courses. The upper-division core courses are ENGL 3000, ENGL 3810, ENGL 3820 , ENGL 3910, ENGL 3920, ENGL 4121 (5121), and ENGL 4995.
  British I: Choose one
  ENGL 4111 (5111), ENGL 4130 (5130), ENGL 4140 (5140)
  British II: Choose one
  ENGL 4210 (5210), ENGL 4221 (5221), ENGL 4231 (5231), ENGL 4240 (5240)
  American: Choose two
  ENGL 4310 (5310), ENGL 4320 (5321), ENGL 4330 (5330), ENGL 4340 (5340), ENGL 4712 (5712), ENGL 4713 (5713), ENGL 4830 (5830)
  Language: Choose one
  ENGL 4511 (5511), ENGL 4521 (5521), ENGL 4531 (5531), ENGL 4541 (5541), ENGL 4561 (5561).
  The remaining 12 hours of upper-division ENGL courses must be taken from any ENGL courses at the 3000-level or above EXCEPT core courses. The upper-division core courses are ENGL 3000, 3810, 3820, 3910, 3920, 4121, and 4995.
  (Generic)

Actual Credits -

Requirement Select

- Students in the Creative Writing Concentration can also have a concentration in Professional and Technical Communication by using elective hours and three additional credit hours to complete 24 credit hours from the following courses (the nine credit hours from the Professional Communication Core are required): • PC 2500 Communicating in the Professions • PC 3250 Professional Communication I • PC 4850 (5850) Internship and 15 additional hours from the following: • PC 3500 - Rhetoric and the Internet • PC 3700 - Information Design in the Professions • PC 3750 - Ethics in the Professions • PC 4850 (5850) - Internship • PC 4940 (5940) - Technical Editing • PC 4950 (5950) - Topics in Professional and Technical Communication • PC 4970 (5970) Professional Communication II • PC 4990 Business and Grant Proposal Writing 3 When necessary, a committee of the instructor of record, the department chair, and the literature concentration advisor will determine if and how courses with primarily Anglophone Literature fit into the existing curriculum for the British/American blocks. Suitably designated courses may be substituted for the courses currently listed in those blocks, contingent upon approval of the majority of the committee.
  (Generic)

Actual Credits -

ENG-LITR - English, Literature Concentration, B.A.

Program Overview

Program Long Title
English, Literature Concentration, B.A.

College/School
Arts and Sciences

Department(s)
English

Requirements

Simple Requirements

English, Literature Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis(3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (4 hours)

Earn at least 4 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (9 hours)

Earn at least 9 credits from the following:
- Humanities/Cultural Expression (FFHC)

ENGL 2330 (required) fulfills 3 of the 9 required credits.

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

English, Literature Concentration Core

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- ENGL1100 - English Explorations
- ENGL2330 - Topics in World Literature
- ENGL3000 - Intro/Engl Method-Resrch
- ENGL3810 - British Literature I
- ENGL3820 - British Literature II
- ENGL3910 - American Literature I
- ENGL3920 - American Literature II
- ENGL4121 - Shakespeare
- ENGL4995 - Senior Colloquium

Additional Requirements:

Students choose courses from the list of approved ENGL courses as indicated below, for a total of 27 hours.

British I (3 hours): Choose one ENGL 4111 (5111), ENGL 4130 (5130), ENGL 4140 (5140)

British II (3 hours): Choose one ENGL 4210 (5210), ENGL 4221 (5221), ENGL 4231 (5231), ENGL 4240 (5240)

American (6 hours): Choose two ENGL 4310 (5310), ENGL 4320 (5321), ENGL 4330 (5330), ENGL 4340 (5340), ENGL 4712 (5712), ENGL 4713 (5713), ENGL 4830 (5830)

Language (3 hours): Choose one ENGL 4511 (5511), ENGL 4521 (5521), ENGL 4531 (5531), ENGL 4541 (5541), ENGL 4561 (5561).

Upper Division English Electives - 3000/4000-level

English Electives (12 hours at the 3000/4000 level)
The remaining 12 hours of upper-division ENGL courses must be taken from any ENGL courses at the 3000-level or above EXCEPT core courses. The upperdivision core courses are ENGL 3000, 3810, 3820, 3910, 3920, 4121, and 4995.

Elective Credits

Electives (19 hours)
Additional free electives are needed to complete the required 120 earned hours.

English Major Foreign Language Requirement

Foreign Language Requirements:

FREN 1010 and FREN 1020 and

FREN 2010 and FREN 2020 (C or better required)

or

GERM 1010 and GERM 1020 and

GERM2010 and GERM2020 (C or better required)

or

SPAN 1010 and SPAN 1020 and

SPAN2010 and SPAN2020 (C or better required)

Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses.

Additional elective hours may be required if students do not take FREN/GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.

Additional Comments:
World Literature Option: ENGL 4720 (5720) or ENGL 4751 (5751) (3 hrs.) Foreign Language 3000-4000 (one composition and two literature courses, excluding country and people courses) (9 hrs.) Students in the Literature Concentration can also have a concentration in Professional and Technical Communication by using elective hours and three additional credit hours to complete 24 credit hours from the following courses (the nine credit hours from the Professional Communication Core are required): Professional Communication Core (9 hours) • PC 2500 Communicating in the Professions • PC 3250 Professional Communication I • PC 4850 (5850) Internship 15 Additional Credit Hours from the Following Courses • PC 3500 - Rhetoric and the Internet • PC 3700 Information Design in the Professions • PC 3750 Ethics in the Professions • PC 4850 (5850) Internship • PC 4940 (5940) - Technical Editing • PC 4950 (5950) - Topics in Professional and Technical Communication • PC 4970 (5970) Professional Communication II • PC 4990 Business and Grant Proposal Writing 3 When necessary, a committee of the instructor of record, the department chair, and the literature concentration advisor will determine if and how courses with primarily Anglophone Literature fit into the existing curriculum for the British/American blocks. Suitably designated courses may be substituted for the courses currently listed in those blocks, contingent upon approval of the majority of the committee.

Degree Map

Degree Map Name
Degree Map - English, Literature Concentration, B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	Fall	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Foreign Language (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses. Additional elective hours may be required if students do not take FREN/GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Freshman Year	Spring	15

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Foreign Language (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- ENGL1100 - English Explorations

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select

- Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses. Additional elective hours may be required if students do not take FREN/ GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Sophomore Year	Fall	16

Requirement Select

- Elective Credits (3 credits)
  (Generic)

Actual Credits 3

Requirement Select

- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select

- Foreign Language (3 credits)
  (Generic)

Actual Credits 3

Requirement Select

- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 4

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses. Additional elective hours may be required if students do not take FREN/ GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Sophomore Year	Spring	16

Requirement Select

- Electives (4 cr.)
  (Generic)

Actual Credits 4

Requirement Select

- ENGL3000 - Intro/Engl Method-Resrch

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- Foreign Language (3 credits)
  (Generic)

Actual Credits 3

Requirement Select

- Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses. Additional elective hours may be required if students do not take FREN/ GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Junior Year	Fall	15

Requirement Select

- ENGL3810 - British Literature I

Actual Credits 3

Requirement Select

- ENGL3910 - American Literature I

Actual Credits 3

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- English Approved Courses (6 credits)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	Spring	15

Requirement Select
- ENGL3820 - British Literature II

Actual Credits 3

Requirement Select
- ENGL3920 - American Literature II

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- English approved courses (6 cr)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Fall	15

Requirement Select
- Elective credit (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- English approved courses (9 cr)
  (Generic)

Actual Credits 9

Requirement Select
- ENGL4121 - Shakespeare

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	12

Requirement Select
- Elective credit (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- ENGL4995 - Senior Colloquium

Actual Credits 3

Requirement Select
- English Approved Courses (6 credits)
  (Generic)

Actual Credits 6

Requirement Select
- Approved ENGL courses: British I: Choose one ENGL 4111 (5111), ENGL 4130 (5130), ENGL 4140 (5140) British II: Choose one ENGL 4210 (5210), ENGL 4221 (5221), ENGL 4231 (5231), ENGL 4240 (5240) American: Choose two ENGL 4310 (5310), ENGL 4320 (5321), ENGL 4330 (5330), ENGL 4340 (5340), ENGL 4712 (5712), ENGL 4713 (5713), ENGL 4830 (5830) Language: Choose one ENGL 4511 (5511), ENGL 4521 (5521), ENGL 4531 (5531), ENGL 4541 (5541), ENGL 4561 (5561). The remaining 12 hours of upper-division ENGL courses must be taken from any ENGL courses at the 3000-level or above EXCEPT core courses. The upper division core courses are ENGL 3000, 3810, 3820, 3910, 3920, 4121, and 4995.
  (Generic)

Actual Credits -

Requirement Select
- World Literature Option: ENGL 4720 (5720) or ENGL 4751 (5751) (3 hrs.) Foreign Language 3000-4000 (one composition and two literature courses, excluding country and people courses) (9 hrs.) Students in the Literature Concentration can also have a concentration in Professional and Technical Communication by using elective hours and three additional credit hours to complete 24 credit hours from the following courses (the nine credit hours from the Professional Communication Core are required):
  (Generic)

Actual Credits -

ENG-MIN - English Minor

Program Overview

Program Long Title
English Minor

College/School
Arts and Sciences

Department(s)
English

Requirements

Simple Requirements

Minor in English (ENG)

A minor in English consists of 15 hours in ENGL courses (six hours must be at the 3000-4000 level).

A minor in English may not include ENGL 1010 and ENGL 1020.

ENG-PTC - English, Professional and Technical Communication Concentration, B.A.

Program Overview

Program Long Title
English, Professional and Technical Communication Concentration, B.A.

College/School
Arts and Sciences

Department(s)
English

Requirements

Simple Requirements

English, Professional and Technical Communication Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (4 hours)

Earn at least 4 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (9 hours)

Earn at least 9 credits from the following:
- Humanities/Cultural Expression (FFHC)

ENGL 2330 (required) fulfills 3 of the 9 required credits.

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

English, Professional and Technical Communication Concentration Core

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- ENGL1100 - English Explorations
- ENGL2330 - Topics in World Literature
- ENGL3000 - Intro/Engl Method-Resrch
- ENGL3810 - British Literature I
- ENGL3820 - British Literature II
- ENGL3910 - American Literature I
- ENGL3920 - American Literature II
- ENGL4121 - Shakespeare
- ENGL4995 - Senior Colloquium
- ENGL4511 - Intro/Descriptive Linguistics
  OR ENGL4521 - History-English Language
  OR ENGL4531 - Grammar and Language
- PC2500 - Communicating in the Profess.
- PC3250 - Professional Comm I
- PC4850 - Internship
- PC3500 - Rhetoric and the Internet
  OR PC3700 - Info Design in the Professions
  OR PC3750 - Ethics in the Professions
  OR PC4850 - Internship
- PC4940 - Technical Editing
  OR PC4970 - Professional Comm II
  OR PC4990 - Bus/Grant Proposal Writing
  OR PC4850 - Internship
  OR PC4950 - Topics in Prof/Tech Comm

Professional Communication Electives (15 credits) chosen from:

PC 3500, PC 3700, PC 3750, PC 4850, PC 4940, PC 4950, PC 4970, PC 4990.

Foreign Language Requirements:

Foreign Language Requirements:

FREN 1010 and FREN 1020 and

FREN 2010 and FREN 2020 (C or better required)

or

GERM 1010 and GERM 1020 and

GERM2010 and GERM2020 (C or better required)

or

SPAN 1010 and SPAN 1020 and

SPAN2010 and SPAN2020 (C or better required)

Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses.

Additional elective hours may be required if students do not take FREN/GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.

Elective Credits

Electives (19 hours)
Additional free electives are needed to complete the required 120 earned hours.

Additional Comments:
Students may use their 19 elective hours to pursue the following (optional): Corporate Culture • BMGT 3510 - Management and Organizational Behavior Credit: 3. • BMGT 3630 - Human Resource Management Credit: 3. • COMM 4420 - Advanced Organizational Communication Credit: 3. • COMM 4430 (5430) - Advanced Interpersonal Communication Credit: 3. • COMM 4630 (5630) - Persuasion Credit: 3. Information Architecture • COMM 3120 - Visual Communication/Rhetoric Credit: 3. • WEBD 1500 - Introduction to Web Design Credit: 3. • WEBD 2300 - Web Site Design: Dynamic Sites Credit: 3. • WEBD 3500 - Rhetoric and the Internet Credit: 3. or • PC 3500 - Rhetoric and the Internet Credit: 3. Scientific and Technical Writing • BIOL 3920 - Biological Communication Skills Credit: 3. • PC 4940 (5940) - Technical Editing Credit: 3. • Natural Science Credit 8.

Degree Map

Degree Map Name
Degree Map - English, Professional and Technical Communication Concentration, B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	Fall	16

Requirement Select
- Elective credit (3 credits) (Generic)

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Spring	16

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- ENGL1100 - English Explorations

Actual Credits 3

Requirement Select
- PC2500 - Communicating in the Profess.

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Fall	15

Requirement Select
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- PC3250 - Professional Comm I

Actual Credits 3

Requirement Select
- ENGL3810 - British Literature I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring	16

Requirement Select
- Electives (7 cr)
  (Generic)

Actual Credits 7

Requirement Select
- ENGL3000 - Intro/Engl Method-Resrch

Actual Credits 3

Requirement Select
- ENGL3820 - British Literature II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Fall	15

Requirement Select
- ENGL3910 - American Literature I

Actual Credits 3

Requirement Select
- ENGL4121 - Shakespeare

Actual Credits 3

Requirement Select
- Foreign Language Elective (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PC4850 - Internship

Actual Credits 3

Requirement Select
- Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses. Additional elective hours may be required if students do not take FREN/GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Junior Year	Spring	15

Requirement Select
- Elective credit (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- ENGL3920 - American Literature II

Actual Credits 3

Requirement Select
- Foreign Language Elective (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- PC3500 - Rhetoric and the Internet
  OR
- PC3700 - Info Design in the Professions
  OR
- PC3750 - Ethics in the Professions
  OR
- PC4850 - Internship

Actual Credits 6

Requirement Select
- Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses. Additional elective hours may be required if students do not take FREN/GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Fall	15

Requirement Select
- Elective credit (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- ENGL4511 - Intro/Descriptive Linguistics
  OR
- ENGL4521 - History-English Language
  OR
- ENGL4531 - Grammar and Language

Actual Credits 3

Requirement Select

- Foreign Language Elective (3 credits)
  (Generic)

Actual Credits 3

Requirement Select

- PC4940 - Technical Editing
  OR
- PC4970 - Professional Comm II
  OR
- PC4990 - Bus/Grant Proposal Writing
  OR
- PC4850 - Internship
  OR
- PC4950 - Topics in Prof/Tech Comm

Actual Credits 6

Requirement Select

- Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses. Additional elective hours may be required if students do not take FREN/ GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Spring	12

Requirement Select

- Elective credit (3 credits)
  (Generic)

Actual Credits 3

Requirement Select

- ENGL4995 - Senior Colloquium

Actual Credits 3

Requirement Select

- Foreign Language Elective (3 credits)
  (Generic)

Actual Credits 3

Requirement Select

- PC4940 - Technical Editing
  OR
- PC4970 - Professional Comm II
  OR
- PC4990 - Bus/Grant Proposal Writing
  OR
- PC4850 - Internship
  OR
- PC4950 - Topics in Prof/Tech Comm

Actual Credits 3

Requirement Select

- Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses. Additional elective hours may be required if students do not take FREN/ GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.
  (Generic)

Actual Credits -

Requirement Select

- Students may use their 19 elective hours to pursue the following optional options: Corporate Culture • BMGT 3510 - Management and Organizational Behavior Credit: 3. • BMGT 3630 - Human Resource Management Credit: 3. • COMM 4420 - Advanced Organizational Communication Credit: 3. • COMM 4430 (5430) - Advanced Interpersonal Communication Credit: 3. • COMM 4630 (5630) - Persuasion Credit: 3. Information Architecture • COMM 3120 - Visual Communication/Rhetoric Credit: 3. • WEBD 1500 - Introduction to Web Design Credit: 3. • WEBD 2300 - Web Site Design: Dynamic Sites Credit: 3. • WEBD 3500 - Rhetoric and the Internet Credit: 3. or • PC 3500 - Rhetoric and the Internet Credit: 3. Scientific and Technical Writing • BIOL 3920 - Biological Communication Skills Credit: 3. • PC 4940 (5940) - Technical Editing Credit: 3. • Natural Science Credit 8.
  (Generic)

Actual Credits -

ENG-RHET - English, Rhetoric and Language Concentration, B.A.

Program Overview

Program Long Title
English, Rhetoric and Language Concentration, B.A.

College/School
Arts and Sciences

Department(s)
English

Requirements

Simple Requirements

English, Rhetoric and Language Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations(6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression - literature (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

English, Rhetoric and Language Concentration Core

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- ENGL2550 - Language and Identity
- ENGL1100 - English Explorations
- ENGL2330 - Topics in World Literature
- ENGL3000 - Intro/Engl Method-Resrch
- ENGL3810 - British Literature I
- ENGL3910 - American Literature I
- ENGL3820 - British Literature II
- ENGL3920 - American Literature II
- ENGL4121 - Shakespeare
- ENGL4995 - Senior Colloquium

Students choose courses from Blocks or courses at or above 3000-level as indicated below, for a total of 30 hours.

British Literature Block **(choose one)**: ENGL 4111 (5111), ENGL 4130 (5130), ENGL 4140 (5140), ENGL 4210 (5210), ENGL 4221 (5221), ENGL 4231 (5231), ENGL 4240 (5240) **American Literature (choose one)**: ENGL 4310 (5310), ENGL 4320 (5321), ENGL 4330 (5330), ENGL 4340 (5340), ENGL 4712 (5712), ENGL 4713 (5713), ENGL 4830 (5830);

Upper Division ENGL electives (9 hours) - taken from any ENGL courses 3000-level or above EXEPT core courses.

Note: Upper division core courses are ENGL 3000, 3810, 3820, 3910, 3920, 4121, and 4995.

English, Rhetoric and Language Concentration Core

Language and Rhetoric Block

Earn at least 15 credits from the following:
- ENGL4411 - Writing in the Professions
  OR ENGL4421 - Forms of Arg & Pers:Theo/Pract
  OR ENGL4451 - Intro/Rhetoric:Theory & Pract
  OR ENGL4511 - Intro/Descriptive Linguistics
  OR ENGL4521 - History-English Language
  OR ENGL4531 - Grammar and Language
  OR ENGL4541 - Topics in Linguistics/Language
  OR ENGL4561 - American English

Students choose courses from Blocks or courses at or above 3000-level as indicated below, for a total of 30 hours.

Language and Rhetoric Block (choose any five courses): ENGL 4411 (5411), ENGL 4421 (5421), ENGL 4451 (5451), ENGL 4511 (5511), ENGL 4521 (5521), ENGL 4531 (5531), ENGL 4541 (5541), ENGL 4561 (5561)

English Major Foreign Language Requirement

Foreign Language Requirements:

FREN 1010 and FREN 1020 and

FREN 2010 and FREN 2020 (C or better required)

or

GERM 1010 and GERM 1020 and

GERM2010 and GERM2020 (C or better required)

or

SPAN 1010 and SPAN 1020 and

SPAN2010 and SPAN2020 (C or better required)

Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses.

Additional elective hours may be required if students do not take FREN/GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.

Elective Credits

Electives (13 hours)
Additional free electives are needed to complete the required 120 earned hours.

Flight Foundation Core - Financial Literacy or Digital Literacy (4 cr.)

Earn at least 4 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - English, Rhetoric and Language Concentration, B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Foreign Language (Generic)

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Foreign Language (Generic)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 4

Requirement Select
- ENGL2550 - Language and Identity

Actual Credits 3

Requirement Select
- ENGL1100 - English Explorations

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Foreign Language/Elective Credit (Generic)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Electives (4 cr.)
  (Generic)

Actual Credits 4

Requirement Select
- ENGL3000 - Intro/Engl Method-Resrch

Actual Credits 3

Requirement Select
- ENGL3810 - British Literature I

Actual Credits 3

Requirement Select
- ENGL3910 - American Literature I

Actual Credits 3

Requirement Select
- Foreign Language/Elective Credit
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- ENGL3820 - British Literature II

Actual Credits 3

Requirement Select
- ENGL from blocks or courses at or above 3000-level
  (Generic)

Actual Credits 6

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- ENGL3920 - American Literature II

Actual Credits 3

Requirement Select
- ENGL4121 - Shakespeare

Actual Credits 3

Requirement Select
- ENGL from blocks or courses at or above 3000-level
  (Generic)

Actual Credits 6

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- ENGL from blocks or courses at or above 3000-level
  (Generic)

Actual Credits 3

Requirement Select
- ENGL from blocks or courses at or above 3000-level
  (Generic)

Actual Credits 3

Requirement Select
- ENGL from blocks or courses at or above 3000-level
  (Generic)

Actual Credits 3

Requirement Select
- ENGL from blocks or courses at or above 3000-level
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- ENGL4995 - Senior Colloquium

Actual Credits 3

Requirement Select

- ENGL from blocks or courses at or above 3000-level (Generic)
  OR
- ENGL from blocks or courses at or above 3000-level (Generic)

Actual Credits 6

Requirement Select

- Students choose courses from Blocks or courses at or above 3000-level as indicated below, for a total of 30 hours. Language and Rhetoric Block (choose any five courses): ENGL 4411 (5411), ENGL 4421 (5421), ENGL 4451 (5451), ENGL 4511 (5511), ENGL 4521 (5521), ENGL 4531 (5531), ENGL 4541 (5541), ENGL 4561 (5561) British Literature Block (choose one): ENGL 4111 (5111), ENGL 4130 (5130), ENGL 4140 (5140), ENGL 4210 (5210), ENGL 4221 (5221), ENGL 4231 (5231), ENGL 4240 (5240) American Literature (choose one): ENGL 4310 (5310), ENGL 4320 (5321), ENGL 4330 (5330), ENGL 4340 (5340), ENGL 4712 (5712), ENGL 4713 (5713), ENGL 4830 (5830) The remaining 9 hours of upper-division ENGL courses must be taken from any ENGL courses 3000 or above EXCEPT core courses. (The upper-division core courses are ENGL 3000, 3810, 3820, 3910, 3920, 4121 (5121), and 4995.)
  (Generic)

Actual Credits -

Requirement Select

- Note: English majors meet the foreign language requirement by making a C or better in a foreign language course at the 2020 level or higher excluding Country and People and the Global Studies courses. Additional elective hours may be required if students do not take FREN/GERM/SPAN 1010 and 1020. These electives do not have to be foreign language courses.
  (Generic)

Actual Credits -

Requirement Select

- * Students in the Rhetoric and Language Concentration can also have a concentration in Professional and Technical Communication by using elective hours and three additional credit hours to complete 24 credit hours from the following courses (the nine credit hours from the Professional Communication Core are required): PC 2500 - Communicating in the Professions PC 3250 - Professional Communication I PC 4850 (5850) - Internship and 15 additional hours from the following: PC 3500 - Rhetoric and the Internet PC 3700 - Information Design in the Professions PC 3750 - Ethics in the Professions PC 4850 (5850) - Internship PC 4940 (5940) - Technical Editing PC 4950 (5950) - Topics in Professional and Technical Communication PC 4970 (5970) - Professional Communication II PC 4990 - Business and Grant Proposal Writing 3 When necessary, a committee of the instructor of record, the department chair, and the literature concentration advisor will determine if and how courses with primarily Anglophone Literature fit into the existing curriculum for the British/American blocks. Suitably designated courses may be substituted for the courses currently listed in those blocks, contingent upon approval of the majority of the committee.
  (Generic)

Actual Credits -

ENG-THEA-P - English, Theatre Concentration, Performance Option, B.A.

Program Overview

Program Long Title
English, Theatre Concentration, Performance Option, B.A.

College/School
Arts and Sciences

Department(s)
English

Requirements

Simple Requirements

English, Theatre Concentration, Performance Option (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression - Literature Requirement (3 hours)

Complete ALL of the following Courses:
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Complete ALL of the following Courses:
- THEA1030 - Intro to Theater
- MUS1030 - Music Appreciation

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

English, Theatre Concentration, Performance Option Core

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- ENGL2330 - Topics in World Literature
- ENGL3000 - Intro/Engl Method-Resrch
- ENGL3810 - British Literature I
- ENGL3820 - British Literature II
- ENGL3910 - American Literature I
- ENGL3920 - American Literature II
- ENGL4121 - Shakespeare
- ENGL4995 - Senior Colloquium
- ENGL4640 - Modern & Contemporary Drama
- THEA1016 - Fundamentals of Acting
- THEA1030 - Intro to Theater
- THEA2016 - Intermediate Acting
- THEA2110 - Play Production
- THEA4110 - Advanced Acting Techniques
- THEA2155 - Voice-Diction/Actrs-Non-Actrs
- THEA1025 - Stagecraft I
- THEA3000 - History of the Theatre
- THEA2500 - Theatrical Makeup
- THEA3002 - Fundamentals of Playwriting
  OR THEA2025 - Stagecraft II
  OR THEA2000 - Stage Management
  OR THEA3600 - Film Studies
  OR ENGL2400 - Intro to Creative Writing
  OR ENGL4430 - Creative Writing: Fiction
  OR ENGL4440 - Creative Writing: Essay
  OR ENGL4411 - Writing in the Professions
  OR ENGL4421 - Forms of Arg & Pers:Theo/Pract
  OR ENGL4451 - Intro/Rhetoric:Theory & Pract
- THEA4400 - Dramatic Literature
- THEA4300 - Play Directing
- THEA4500 - Creative Dramatics
  OR THEA3200 - Theatrical Design
  OR THEA3500 - Costume Design / Construction
  OR THEA4200 - Theatre Design Practicum
  OR ENGL4511 - Intro/Descriptive Linguistics
  OR ENGL4521 - History-English Language
  OR ENGL4531 - Grammar and Language
- THEA4600 - Theatre Internship
- MUS1030 - Music Appreciation
- MUS1650 - Ballet I (Inactive)
- MUS3006 - Opera Workshop
- MUS1670 - Musical Theatre Movement III (Inactive)
- ELECTIVE - Elective Credit

General Elective (1 cr.)

English Major/Theatre Concentration Foreign Language Requirement

Earn at least 12 credits from the following:

- ENG/THEA Foreign Language

Foreign Language - Complete 12 hours from FREN, GERM, or SPAN 1010, 1020, 2010, and 2020.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Flexible Elective (1 cr.)

Flight Foundation Elective (1 cr.) - Select from Scientific Reasoning or Financial or Digital Literacy

Additional Comments:
Students in the Theatre Concentration Performance Option can also have a concentration in Professional and Technical Communication by using elective hours and three additional credit hours to complete 24 credit hours from the following courses (the nine credit hours from the Professional Communication Core are required): PC 2500 - Communicating in the Professions PC 3250 - Professional Communication I PC 3500 - Rhetoric and the Internet PC 3700 - Information Design in the Professions PC 3750 - Ethics in the Professions PC 4850 (5850) - Internship PC 4940 (5940) - Technical Editing PC 4950 (5950) - Topics in Professional and Technical Communication PC 4970 (5970) - Professional Communication II PC 4990 - Business and Grant Proposal Writing

Degree Map

Degree Map Name
Degree Plan - English, Theatre Concentration, Performance Option, B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- THEA1016 - Fundamentals of Acting

Actual Credits 2

Requirement Select
- THEA1030 - Intro to Theater

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- THEA2016 - Intermediate Acting

Actual Credits 2

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Requirement Select
- General elective (1 cr.)
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- ENG/THEA Foreign Language

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MUS3006 - Opera Workshop

Actual Credits 3

Requirement Select
- THEA4110 - Advanced Acting Techniques

Actual Credits 2

Requirement Select
- MUS3650 - Musical Theatre Movement I

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- ENGL3810 - British Literature I

Actual Credits 3

Requirement Select
- ENG/THEA Foreign Language

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- ENGL3000 - Intro/Engl Method-Resrch

Actual Credits 3

Requirement Select
- THEA2155 - Voice-Diction/Actrs-Non-Actrs

Actual Credits 3

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- ENGL3820 - British Literature II

Actual Credits 3

Requirement Select
- THEA1025 - Stagecraft I

Actual Credits 3

Requirement Select
- THEA3000 - History of the Theatre

Actual Credits 3

Requirement Select
- THEA2500 - Theatrical Makeup

Actual Credits 2

Requirement Select
- MUS3670 - Musical Theatre Movement III

Actual Credits 1

Requirement Select
- ENG/THEA Foreign Language

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- THEA4400 - Dramatic Literature

Actual Credits 3

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Requirement Select
- THEA3002 - Fundamentals of Playwriting
  OR
- THEA2025 - Stagecraft II
  OR
- THEA2000 - Stage Management
  OR
- THEA3600 - Film Studies
  OR
- ENGL2400 - Intro to Creative Writing
  OR
- ENGL4430 - Creative Writing: Fiction
  OR
- ENGL4440 - Creative Writing: Essay
  OR
- ENGL4411 - Writing in the Professions
  OR
- ENGL4421 - Forms of Arg & Pers:Theo/Pract
  OR
- ENGL4451 - Intro/Rhetoric:Theory & Pract

Actual Credits 3

Requirement Select
- ENGL3920 - American Literature II

Actual Credits 3

Requirement Select
- ENG/THEA Foreign Language

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- ENGL4121 - Shakespeare

Actual Credits 3

Requirement Select
- ENGL4640 - Modern & Contemporary Drama

Actual Credits 3

Requirement Select
- THEA4300 - Play Directing

Actual Credits 3

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- ENGL3910 - American Literature I

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select
- ENGL4995 - Senior Colloquium

Actual Credits 3

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Requirement Select
- THEA4600 - Theatre Internship

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- THEA4500 - Creative Dramatics
  OR
- THEA3200 - Theatrical Design
  OR
- THEA3500 - Costume Design / Construction
  OR
- THEA4200 - Theatre Design Practicum
  OR
- ENGL4511 - Intro/Descriptive Linguistics
  OR
- ENGL4521 - History-English Language
  OR
- ENGL4531 - Grammar and Language

Actual Credits 3

Requirement Select
- Flight Foundation Elective (1 cr.) - select from Scientific Reasoning or Financial or Digital Literacy (Generic)

Actual Credits 1

ENG-THEA-T - English, Theatre Concentration, Technical Option, B.A.

Program Overview

Program Long Title
English, Theatre Concentration, Technical Option, B.A.

College/School
Arts and Sciences

Department(s)
English

Requirements

Simple Requirements

English, Theatre Concentration, Technical Option (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression- Literature Requirement (3 hours)

Complete ALL of the following Courses:
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- MUS1030 - Music Appreciation
- THEA1030 - Intro to Theater

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Flight Foundation Core - Financial Literacy or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - 1 cr. course from approved list of Scientific Reasoning or Financial Literacy or Digital Literacy

English, Theatre Concentration, Technical Option Core

Type
Completion Requirement

English, Theatre Concentration, Technical Option Core

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- ENGL2330 - Topics in World Literature
- ENGL3000 - Intro/Engl Method-Resrch
- ENGL3810 - British Literature I
- ENGL3820 - British Literature II
- ENGL3910 - American Literature I
- ENGL3920 - American Literature II
- ENGL4121 - Shakespeare
- ENGL4995 - Senior Colloquium
- ENGL4640 - Modern & Contemporary Drama
- THEA1030 - Intro to Theater
- THEA1025 - Stagecraft I
- THEA2110 - Play Production
- THEA2025 - Stagecraft II
- THEA3200 - Theatrical Design
- THEA2000 - Stage Management
- THEA4200 - Theatre Design Practicum
- THEA2500 - Theatrical Makeup
  OR THEA3500 - Costume Design / Construction
- THEA1016 - Fundamentals of Acting
- THEA2800 - Lighting Design
- THEA3000 - History of the Theatre
- THEA3800 - Sound Design
  OR THEA2800 - Lighting Design
- THEA4400 - Dramatic Literature
- THEA4300 - Play Directing
- THEA4200 - Theatre Design Practicum
- MUS1030 - Music Appreciation
- ELECTIVE - Elective Credit

General Elective (1 cr.)

English Major Foreign Language Requirement

Earn at least 12 credits from the following:
- ENG/THEA Foreign Language

Foreign Language - Complete 12 hours from FREN, GERM, or SPAN 1010, 1020, 2010, and 2020.

Additional Comments:
Students in the Theatre Concentration Technical Option can also have a concentration in Professional and Technical Communication by using elective hours and three additional credit hours to complete 24 credit hours from the following courses (the nine credit hours from the Professional Communication Core are required): • PC 2500 Communicating in the Professions • PC 3250 Professional Communication I • PC 3500 - Rhetoric and the Internet • PC 3700 Information Design in the Professions • PC 3750 Ethics in the Professions • PC 4850 (5850) Internship • PC 4940 (5940) - Technical Editing • PC 4950 (5950) - Topics in Professional and Technical Communication • PC 4970 (5970) Professional Communication II • PC 4990 - Business and Grant Proposal Writing

Degree Map

Degree Map Name
Degree Plan - English, Theatre Concentration, Technical Option, B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- THEA1025 - Stagecraft I

Actual Credits 3

Requirement Select
- THEA1030 - Intro to Theater

Actual Credits 3

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- THEA2025 - Stagecraft II

Actual Credits 3

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- General elective (1 cr.)
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	First Semester	14

Requirement Select
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Requirement Select
- THEA3200 - Theatrical Design

Actual Credits 3

Requirement Select
- THEA2000 - Stage Management

Actual Credits 3

Requirement Select
- THEA2500 - Theatrical Makeup
  OR
- THEA3500 - Costume Design / Construction

Actual Credits 2

Requirement Select
- THEA1016 - Fundamentals of Acting

Actual Credits 2

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ENGL3810 - British Literature I

Actual Credits 3

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Requirement Select
- ENGL3000 - Intro/Engl Method-Resrch

Actual Credits 3

Requirement Select
- THEA2800 - Lighting Design

  OR
- THEA3800 - Sound Design

Actual Credits 2

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- ENGL3820 - British Literature II

Actual Credits 3

Requirement Select
- ENGL3910 - American Literature I

Actual Credits 3

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Requirement Select
- THEA3000 - History of the Theatre

Actual Credits 3

Requirement Select
- THEA2500 - Theatrical Makeup

  OR
- THEA3500 - Costume Design / Construction

Actual Credits 3

Requirement Select
- ENG/THEA Foreign Language

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- ENGL3920 - American Literature II

Actual Credits 3

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Requirement Select
- THEA3800 - Sound Design

  OR
- THEA2800 - Lighting Design

Actual Credits 2

Requirement Select
- THEA4400 - Dramatic Literature

Actual Credits 3

Requirement Select
- ENG/THEA Foreign Language

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- ENGL4121 - Shakespeare

Actual Credits 3

Requirement Select
- THEA4300 - Play Directing

Actual Credits 3

Requirement Select
- THEA2110 - Play Production

Actual Credits 1

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Flight Foundation Elective (1 cr.) -Select from Scientific Reasoning or Financial or Digital Literacy (Generic)

Actual Credits 1

Requirement Select
- ENG/THEA Foreign Language

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- THEA4200 - Theatre Design Practicum

Actual Credits 3

Requirement Select
- ENGL4995 - Senior Colloquium

Actual Credits 3

Requirement Select
- ENGL4640 - Modern & Contemporary Drama

Actual Credits 3

Requirement Select
- ENG/THEA Foreign Language

Actual Credits 3

PCOM-MIN - Professional and Technical Communication Minor

Program Overview

Program Long Title
Professional and Technical Communication Minor

College/School
Arts and Sciences

Department(s)
English

Requirements

Simple Requirements

Professional and Technical Communication Minor

Type
Completion Requirement

Core Courses

Complete ANY of the following Courses:
- PC2500 - Communicating in the Profess.
  OR COMM2025 - Fundamentals of Communication

Additional coursework (12 credits):

Earn at least 12 credits from the following:
- PC3250 - Professional Comm I
- PC3700 - Info Design in the Professions
- PC3750 - Ethics in the Professions
- PC4850 - Internship
- PC4940 - Technical Editing
- PC4950 - Topics in Prof/Tech Comm
- PC4970 - Professional Comm II
- PC4990 - Bus/Grant Proposal Writing
- WEBD3500 - Rhetoric and the Internet

THEA-MIN - Theatre Minor

Program Overview

Program Long Title
Theatre Minor

College/School
Arts and Sciences

Department(s)
English

Requirements

Simple Requirements

Minor in Theatre (THEA)

A Theatre minor consists of 15 hours in THEA courses (six hours must be at the 3000-4000 level).

TWC-CER - Technical Writing and Communication Certificate

Program Overview

Program Long Title
Technical Writing and Communication Certificate

College/School
Arts and Sciences

Department(s)
English

Requirements

Simple Requirements

Technical Writing and Communication Certificate

Type
Completion Requirement

Oral Communication Course (3 credit hours)

Complete ALL of the following Courses:

- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

Technical Writing Core (9 credit hours)

Complete ALL of the following Courses:

- ENGL3250 - Professional Comm I
  OR PC3250 - Professional Comm I
- PC4940 - Technical Editing
  OR PC5940 - Technical Editing
- PC4990 - Bus/Grant Proposal Writing

Elective Courses (6 credit hours)

Earn at least 6 credits from the following:

- PC3700 - Info Design in the Professions
  OR WEBD3700 - Info Design in the Professions
- PC3750 - Ethics in the Professions
- PC4850 - Internship
- PC4950 - Topics in Prof/Tech Comm
- PC4970 - Professional Comm II

Note: Students will complete an electronic portfolio, based on the courses completed. This portfolio, a digital repository of student work, will consist of four "artifacts" from completed coursework, which could include reports, grant proposals, edited documents, a poster, video, or other digitally designed visual aid, such as an infographic. Students will upload these documents to a non-University site so that their work will be accessible following graduation. During their final semester of certificate completion, students will present their electronic portfolio during a dead hour as a public celebration and recognition of their work.

Courses

Course Information

Course Title
English Composition I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
1010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduces students to expressive, expository and persuasive writing. Assignments are based on personal experience and research. Student must earn a grade of C or better to pass.

College/School
Arts and Sciences

Course Information

Course Title
English Composition II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
1020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ENGL 1010. Builds on writing and research processes taught in ENGL 1010; emphasizes critical reading, critical thinking, and critical writing (persuasion) about a variety of written texts and other media. Student must earn a grade of C or better to pass.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010.

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Communication/English Composition).

Course Information

Course Title
English Explorations

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
1100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduces students to the English major and resources for success. Students explore career opportunities, develop professional artifacts, and engage in seminar discussions of how English intersects with emerging technologies.

College/School
Arts and Sciences

Syllabus
ENGL 1100 syll rev oct 27 2025.docx

Course Information

Course Title
Topics in American Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
2130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ENGL 1020 with a grade of C or better. Not for ENG or SEEN majors. Representative authors, periods, or themes from the colonial period to the present.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1020.

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Introduction to Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
2200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite ENGL 1010. Introduces students to the discipline of film studies. Students learn the concepts and vocabulary for critically analyzing films as well as how to situate films and media their social and historical contexts.

College/School
Arts and Sciences

Syllabus
ENGL 2200 syll sp26.docx

Requisites and Restrictions

Prerequisite:
Prerequisite ENGL 1010.

Course Information

Course Title
Topics in British Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
2235

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ENGL 1020 with a grade of C or better. Not for ENG majors. Representative authors, periods, or themes from Old English to the present.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1020.

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Topics in World Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
2330

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ENGL 1020 with a grade of C or better. Representative authors, periods, or themes from various world literary cultures.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1020.

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Intro to Creative Writing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
2400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite or Co-requisite: ENGL 1020. An introductory-level creative writing course in at least two genres: fiction, poetry, literary nonfiction, or drama. Genres to be determined by the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Corequisite:
ENGL 1020.

Course Information

Course Title
Language and Identity

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
2550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course introduces students to the study of language as a means of human connection, persuasion, and cultural expression.

College/School
Arts and Sciences

Syllabus
ENGL 2550 Language & Identity- Syllabus.pdf

Course Information

Course Title
Digital Literacy

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
2600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course introduces students to essential digital literacies, strategies, and technologies they will use in their careers.

College/School
Arts and Sciences

Syllabus
ENGL 2600 syll prop to cas.pdf

Course Information

Course Title
Intro/Engl Method-Resrch

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
3000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130 , ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Basic sources, research methodology, critical theory, and writing processes/formats needed by majors.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235 and ENGL 2330 are prerequisites for all Upper Division courses. The prerequisite for Upper Division courses of ENGL 2130, ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Professional Comm I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
3250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite:: ENGL 1020. The preparation of effective technical and professional reports and the preparation and delivery of effective oral reports. (Same as PC 3250.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1020.

Course Information

Course Title
Mythology

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Greek and Roman myths in relation to modern life and literature.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
The Bible as Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
3600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper-division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2230 or ENGL 2330 is waived for ENGL and SEEN majors. This course examines the wide variety of genres and narratives that form the Bible—from the mythological and genealogical to the poetic and prophetic—and does this from critical, literary, cultural, and rhetorical perspectives.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper-division courses.The prerequisite for upper-division courses of ENGL 2130 or ENGL 2230 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
British Literature I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
3810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. A survey of British authors from Old English through the eighteenth century.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
British Literature II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
3820

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. A survey of British authors from the Romantics to the present.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
American Literature I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
3910

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. A survey of American writers from the colonial period through the mid-nineteenth century.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
American Literature II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
3920

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. A survey of American writers from the mid-nineteenth century through the present.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Chaucer

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4111

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors. Selected works of Geoffrey Chaucer.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Shakespeare

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4121

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Historical, thematic and other approaches in the study of Shakespeare. (May be repeated once as an elective provided the course content is different.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Milton

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Selected works of John Milton.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Topics/British Lit to 1667

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4140

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Topics in Medieval and/or Early Modern British literature. Course may be repeated provided the content is different each time.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
18th Cent British Lit

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Studies in eighteenth-century British literature.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Romantic Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4221

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Studies in Romantic literature.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Victorian Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4231

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Studies in Victorian literature.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Topics:British Lit After 1667

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4240

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Studies in Modern British literature. Course may be repeated provided the content is different each time.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Early American Lit

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors. Study of American literature from colonial period through early nationalist period.

College/School
Arts and Sciences

Course Information

Course Title
19th Century American Lit

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Study of the literature and literary movements of the period, with emphasis on romanticism and/or realism.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Modern American Lit

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4330

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Study of the literature and literary movements of the period, with emphasis on the twentieth century and/or contemporary period.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Topics in American Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4340

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Thematic, interdisciplinary or genre-based approaches to American literary study beyond the usual scope of ENGL 4310 (5310), ENGL 4320 (5321), or ENGL 4330 (5330). Course may be repeated provided the content is different each time..

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Writing in the Professions

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4411

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. This course builds on students' present writing competency and focuses on writing in their particular majors and/or professions.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Forms of Arg & Pers:Theo/Pract

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4421

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Introduces students to various models of argumentation through theory (readings) and practice (analysis and production).

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Creative Writing: Fiction

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Grade of C or better in ENGL 2400 or prior consent of the instructor. Guided practice in the craft and art of writing short fiction. Course may be repeated provided the content is different each time.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Grade of C or better in ENGL 2400 or prior consent of the instructor.

Course Information

Course Title
Creative Writing: Essay

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4440

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Grade of C or better in ENGL 2400 or prior consent of the instructor. Guided practice in the craft and art of writing personal essays. Course may be repeated, provided the content is different each time.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Grade of C or better in ENGL 2400 or prior consent of the instructor.

Course Information

Course Title
Creative Writing: Poetry

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4450

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Grade of C or better in ENGL 2400 or prior consent of the instructor. Guided practice in the craft and art of writing poetry. Course may be repeated provided the content is different each time.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Grade of C or better in ENGL 2400 or prior consent of the instructor.

Course Information

Course Title
Intro/Rhetoric:Theory & Pract

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4451

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. The course introduces students to rhetoric–history and special topics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Lit Mag Editing/Iris Review

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4460

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Grade of C or better in ENGL 2400 or prior consent of the instructor. Creation of a literary magazine annual edition from initial call for submissions through publication. Course may be repeated one provided the content is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Grade of C or better in ENGL 2400 or prior consent of the instructor.

Course Information

Course Title
Topics in Adv Creative Writing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4470

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisites: ENGL 4430 or ENGL 4440 or ENGL 4450 or prior consent of the instructor. Thematic, genre-based, or research-inflected creative writing workshop, at a level of advanced practice. Course may be repeated provided the content is different each time. Possible topics include Creative Research, Witness Writing, Social Issues, Identity, and Multimedia.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 4430 (5430) or ENGL 4440 (5440) or ENGL 4450 (5450), or prior consent of the instructor.

Course Information

Course Title
Intro/Descriptive Linguistics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4511

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors. Introduction to descriptive analysis of language: phonology, morphology, lexicon, and syntax.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
History-English Language

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4521

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors. History of the language from its origins to the present; emphasis upon historical development of English sounds, word structure, and syntax.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Grammar and Language

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4531

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Grammatical structure of English in relation to dialect and register with some emphasis on historical and potential changes in grammar.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Topics in Linguistics/Language

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4541

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Examination of specific aspects of language and/or linguistic study, such as Old and Middle English, the language of dialect literature or American English dialects. Course may be repeated provided the content is different each time.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
American English

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4561

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. This class will examine American English from multiple cultural and linguistic angles and allow the students to develop their own understanding of how the language around them shapes their lives.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Novel

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Theory of the novel and a study of selected novels.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Poetry: Form, Genre, Theory

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. The study of poetry written in English and translated from other languages, with attention to such topics as poetic movements, styles, trends, the evolution, and development of forms.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Literary Criticism and Theory

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
rerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Historical and thematic studies of critical and theoretical trends and issues.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Modern & Contemporary Drama

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4640

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Study of dramatic texts and performance issues from the late 19th century to the present.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
The Graphic Novel

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4650

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, 2235, and 2330 are prerequisites for all upper-division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2230 or ENGL 2330 is waived for ENGL majors and for SEEN majors. Theory of comics-format texts and study of selected graphic novels.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, 2235, and 2330 are prerequisites for all upper-division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2230 or ENGL 2330 is waived for ENGL majors and for SEEN majors.

Course Information

Course Title
African American Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4712

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Studies of African American literature and culture, both oral and printed.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Native American Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4713

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Studies of Native American literature and culture, both oral and printed.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Continental Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Study of major works and writers from the European continent.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Approaches to Women & Lit

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4731

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Studies of major women writers or images of women in literature. Course may be repeated provided the course content is different each time.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Science and Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4741

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Cultural influences on scientific discourse and literature about science.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Topics in Non-Western Lit

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4751

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Focuses on literature written outside of European literary traditions, either written in or translated into English. Course may be repeated for credit as long as the topic is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Introduction to Folklore

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2230, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2230 or ENGL 2330 is waived for ENGL and SEEN majors. Generic survey of folklore; possible definitions, varieties, meanings, and methods of study. Stress on verbal traditions (tales, songs, and beliefs).

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Upper Cumberland Folklore

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4820

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130 , ENGL 2230 , and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2230 or ENGL 2330 is waived for ENGL and SEEN majors. Folklore of the Upper Cumberland, with emphasis on relationships between regional material and the broad perspective of the humanities.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Southern Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4830

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Major writers of the South, with emphasis on regional themes and on the Southern literary renaissance.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
The Gothic Tale of Terror

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4840

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Readings in Gothic poetry and prose.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
The Literature of Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4911

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2230, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2230 or ENGL 2330 is waived for ENGL and SEEN majors. Topics in literary non-fiction written by scientists.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Literature and Technology

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4921

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2230 and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2230 or ENGL 2330 is waived for ENGL and SEEN majors. Study of literature which deals with the impact of technology on society.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Lit and the Environment

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4931

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2230 and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2230 or ENGL 2330 is waived for ENGL and SEEN majors. A study, through literature, of the relationship between humans and the environment.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Topics in Prof/Tech Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4950

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: ENGL 3250 or PC 3250. In-depth study of topics relevant to the field of Professional and Technical communication. Course may be repeated provided the content is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 3250 or PC 3250.

Course Information

Course Title
Professional Comm II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4970

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all Upper Division courses. The prerequisite for Upper Division courses of ENGL 2130, ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. A continuation of ENGL 3250 with emphasis on more complex reports.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all Upper Division courses. The prerequisite for Upper Division courses of ENGL 2130, ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4981

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Coursework or directed individual research in any area where there is no other course offering.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4982

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Coursework or directed individual research in any area where there is no other course offering.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4983

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors. Coursework or directed individual research in any area where there is no other course offering.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4990

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: Junior or senior status, at least two ENGL courses at the 3000-level or above, and consent of the chair or internship coordinator. This course is for English majors only. Part-time employment in a business or institution setting related to a student's academic and career goals, and contextualized by guided written reflection with a faculty member. Cannot be taken in place of core English courses (ENGL 3000, ENGL 3810, ENGL 3820, ENGL 3910, ENGL 3920, ENGL 4121, ENGL 4995).

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior or Senior status, at least two ENGL courses at the 3000-level or above, and consent of chair or internship coordinator.

Course Information

Course Title
Senior Colloquium

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGL

Course Number
4995

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: Senior standing as an English BA major; completion of all required ENGL 3000-level courses. Intensive study of a theme or period selected by the instructor, with an emphasis on research, writing, discussion, and presentation.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Senior Standing as an English BA major; completion of all required ENGL 3000-level courses.

Course Information

Course Title
Intro to Descriptive Ling

Academic Level (Course Level)
Undergraduate

Course Subject Code
LING

Course Number
4511

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to descriptive analysis of language: phonology, morphology, lexicon, and syntax.

College/School
Arts and Sciences

Course Information

Course Title
Hist-English Language

Academic Level (Course Level)
Undergraduate

Course Subject Code
LING

Course Number
4521

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
History of English from its origins to the present, emphasis upon historical development of English sounds, word structure, and syntax.

College/School
Arts and Sciences

Course Information

Course Title
Grammar and Language

Academic Level (Course Level)
Undergraduate

Course Subject Code
LING

Course Number
4531

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Grammatical structure of English in relation to dialect and register with some emphasis on historical and potential changes in grammar. Course may be repeated provided the content is different each time.

College/School
Arts and Sciences

Course Information

Course Title
Topics in Linguistics/Language

Academic Level (Course Level)
Undergraduate

Course Subject Code
LING

Course Number
4541

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Examination of specific aspects of language and/or linguistic study, such as Old and Middle English, the language of dialect literature or American English dialects. Course may be repeated provided the content is different each time

College/School
Arts and Sciences

Course Information

Course Title
American English

Academic Level (Course Level)
Undergraduate

Course Subject Code
LING

Course Number
4561

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This class will examine American English from multiple cultural and linguistic angles and allow the students to develop their own understanding of how the language around them shapes their lives.

College/School
Arts and Sciences

Course Information

Course Title
Communicating in the Profess.

Academic Level (Course Level)
Undergraduate

Course Subject Code
PC

Course Number
2500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ENGL 1020 or concurrent enrollment in ENGL 1020. Overview of skills and principles related to oral communication in various professions.

College/School
Arts and Sciences

Course Information

Course Title
Digital Literacy

Academic Level (Course Level)
Undergraduate

Course Subject Code
PC

Course Number
2600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course introduces students to essential digital literacies, strategies, and technologies they will use in their careers.

College/School
Arts and Sciences

Syllabus
ENGL 2600 syll prop to cas.pdf

Course Information

Course Title
Professional Comm I

Academic Level (Course Level)
Undergraduate

Course Subject Code
PC

Course Number
3250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 1020. The preparation of effective technical and professional reports; the preparation and delivery of effective oral reports. (Same as ENGL 3250.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1020.

Course Information

Course Title
Rhetoric and the Internet

Academic Level (Course Level)
Undergraduate

Course Subject Code
PC

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL1020. Instruction in web site analysis and document design, including background in rhetorical theory and principles.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1020.

Course Information

Course Title
Info Design in the Professions

Academic Level (Course Level)
Undergraduate

Course Subject Code
PC

Course Number
3700

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 3250 or PC 3250. Practical experience in the field of information design: a specialized field in which complex information is presented clearly and efficiently to its intended audience. Students will study the design principles used to develop both print and web documents and learn about the technologies used to develop and publish such documents.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 3250 or PC 3250.

Course Information

Course Title
Ethics in the Professions

Academic Level (Course Level)
Undergraduate

Course Subject Code
PC

Course Number
3750

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: ENGL 1010 and 1020. Overview of multidisciplinary ethical issues that affect all disciplines, including privacy, social responsibility, informed consent, morality, responsibility, and professional codes of ethics. The course focuses on case studies of ways these issues apply in various professions.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 1010 and ENGL 1020.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
PC

Course Number
4850

Credit Hours

Credit Hours:
3

Credit Hours:
9

Other Hours

Min:
3

Max:
9

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: PC 4940/5940 or 4970/5970. Part-time or full-time employment in a business, industrial, or institutional communications setting related to student academic and career goals. Includes a reflective component in the form of a paper or journal that connects the student's work with research covered in prerequisite courses. Course may be repeated for up to a total of nine credit hours. Undergraduate students may not take more than nine credit hours of PC 4850during their degree programs. Graduate students may take no more than six credit hours of PC 5850 during their degree programs.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PC 4940 (5940) or PC 4970 (5970).

Course Information

Course Title
Technical Editing

Academic Level (Course Level)
Undergraduate

Course Subject Code
PC

Course Number
4940

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PC/ENGL 3250. Principles and practices of technical editing.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PC 3250 (ENGL 3250).

Course Information

Course Title
Topics in Prof/Tech Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
PC

Course Number
4950

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: ENGL 3250 or PC 3250. In-depth study of topics relevant to the field of Professional and Technical Communication. Course may be repeated provided the content is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 3250 or PC 3250.

Course Information

Course Title
Professional Comm II

Academic Level (Course Level)
Undergraduate

Course Subject Code
PC

Course Number
4970

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ENGL 3250 or PC 3250. A continuation of PC 3250 with emphasis on more complex reports.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 3250 or PC 3250.

Course Information

Course Title
Bus/Grant Proposal Writing

Academic Level (Course Level)
Undergraduate

Course Subject Code
PC

Course Number
4990

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: PC 4970. Theory and practical experience developing business and grant proposals.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ENGL 3250/PC 3250.

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
POPC

Course Number
4010

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Special topics in popular culture.

College/School
Arts and Sciences

Course Information

Course Title
Science Fiction & Fantasy

Academic Level (Course Level)
Undergraduate

Course Subject Code
POPC

Course Number
4050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Analysis and discussion of themes, conventions and stereotypes in short stories, novels and films.

College/School
Arts and Sciences

Course Information

Course Title
Detective Fiction

Academic Level (Course Level)
Undergraduate

Course Subject Code
POPC

Course Number
4060

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Private detectives, policemen, and spies in fiction.

College/School
Arts and Sciences

Course Information

Course Title
First Year Foundations

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
1010

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
This First-Year Foundations course introduces theatre majors to the academic, creative, and professional expectations of the Theatre program at Tennessee Tech University. Designed for students in both Performance and Technical Theatre concentrations, this course supports a successful transition to university study by emphasizing career readiness, durable life skills, and informed exploration of theatre-related pathways.

College/School
Arts and Sciences

Syllabus
THEA 1010 - First Year Foundations.pdf

Course Information

Course Title
Stage Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
2000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
THEA 2000 introduces students to the principles and practices of stage management for live theatrical production. Designed for students in the Technical Theatre concentration, the course focuses on the organizational, communication, and leadership skills required of professional stage managers. Students will learn rehearsal and performance procedures, documentation practices, and production protocols while gaining hands-on experience supporting theatrical productions in a collaborative environment.

College/School
Arts and Sciences

Syllabus
THEA 2000 - Stage Management.pdf

Course Information

Course Title
Lighting Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
2800

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
THEA 2800 introduces students to the principles and practices of theatrical lighting design. Intended for students in the Technical Theatre concentration, the course explores how light is used to support storytelling, mood, and visual composition in live performance. Students will learn fundamental lighting concepts, develop basic design skills, and gain hands-on experience with lighting instruments, control systems, and documentation used in theatrical production.

College/School
Arts and Sciences

Syllabus
THEA 2800 - Lighting Design.pdf

Course Information

Course Title
Costume Design / Construction

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
THEA 3500 introduces students to the principles and practices of costume design and construction for live theatrical production. Intended for students in the Technical Theatre concentration, the course explores how costumes support character development, storytelling, and visual style. Students will learn foundational skills in costume design, fabric selection, patterning, construction techniques, fittings, and alterations while gaining hands-on experience in a collaborative production environment.

College/School
Arts and Sciences

Syllabus
THEA 3500 - Costume Design and Construction.pdf

Course Information

Course Title
Advanced Acting Techniques

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
4110

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite: THEA 2016. Advanced voice and movement study for the stage with an emphasis on period acting styles; in-depth script and character analysis; and advanced scene study.

College/School
Arts and Sciences

Syllabus
THEA 4110 - Advanced Acting Techniques.pdf

Requisites and Restrictions

Prerequisite:
THEA 2016

Environmental Studies Department

Dr. Steve Sharp, Interim Director; Associate Professor, Boles; Professor Hajdik, Mattingly

The School of Environmental Studies (SOES) fosters in students the desire to lead purposeful professional lives through the application of scientific principles to environmental issues within the social, political, and economic framework of our society https://www.tntech.edu/cis/ses/index.ph.

Environmental and Sustainability Studies Undergraduate Program

The Bachelor of Science in Environmental and Sustainability Studies (ESS) in the School of Environmental Studies offers a broad range of cutting-edge degree options in the environmental sciences. The program, which is 120 credit hours, prepares students for meaningful careers dedicated to the study, preservation and future of our environment.

- The Environmental Science concentration allows students their choice of three study options: Environmental Biology, Environmental Chemistry or Natural Resources. This opportunity teaches students the symbiotic nature of a variety of disciplines and allows them to explore and investigate environmental problems on their own and then present their findings to a diverse audience (https://www.tntech.edu/cis/ses/ess/esses/index.php).
- The Society, Culture and Communication concentration allows students to explore how cultural values and beliefs influence the way people use the environment. Students study how organizations address environmental problems and how complex concepts regarding those issues are communicated. In this concentration, students can choose a program of study in communications and media, social science and policy, or leadership and environmental management (https://www.tntech.edu/cis/ses/ess/essscc/index.php).
- The Environmental Technology concentration teaches students to use GIS tools (geographic information systems) in making informed environmental decisions and in modeling environmental processes. Students also explore conventional water treatment methods (https://www.tntech.edu/cis/ses/ess/esset/index.php).

Professional Science Master's with a Concentration in Environmental Informatics (PSM-EI)

The 33-hour PSM-EI degree offers students an interdisciplinary curriculum that combines business and science in a unique learning experience that allows students to look at environmental data in a new way and from a business standpoint (https://www.tntech.edu/cis/ses/psm/index.php).

Environmental Sciences Ph.D. (EVS) Program with a concentration in agriculture, biology, chemistry, geosciences, and integrated research

The School of Environmental Studies offers an interdisciplinary Ph.D. program that will help ◇students reach their career goals in the extensive fields of environmental science. Our Ph.D. program endeavors to be more than a traditional "academic" program. The interdisciplinary faculty work with graduate students to develop the critical thinking skills necessary to solve real-world problems (https://www.tntech.edu/cis/ses/evsphd/index.php).

Programs

ENSU-MIN - Environmental Sustainability Minor

Program Overview

Program Long Title
Environmental Sustainability Minor

College/School
Emerging and Integrative Studies

Department(s)
Environmental Studies

Requirements

Simple Requirements

Environmental Sustainability Minor

Type
Completion Requirement

Environmental Sustainability (ENSU) Minor

Curriculum:

Required Courses (6 credit hours)

- ESS 1100 - Introduction to Environmental Studies Credit: 3.
- ESS 3100 - Global Sustainability Issues and Initiatives Credit: 3.

Directed Elective Courses (9 credit hours): Society and the Environment (Select one course):

- AGBE 2010 - World Food and Society Credit: 3.
- AGR 4600 (5600) - Global Food Systems: Sustainability and Insecurity Credit: 3.
- ESS 2100 - Environment and Ethics Credit: 3.
- HEC 4315 - Global Social Sustainability Credit: 3.
- SOC 3600 - Environmental Sociology Credit: 3.

Economics, Policy, and Law (Select one course):

- AGBE 4120 (5120)/ECON 4120 - Natural Resource Economics Credit: 3.
- ECON 4200 - Environmental Economics Credit: 3.
- ESS 3000 - Introduction to Environmental Law Credit: 3.
- ESS 3200 - Nonprofit Organizations and the Environment Credit: 3.
- ESS 4300 - Environmental Management System Credit: 3.

Environmental Science and Technology (Select one course):

- AGRN 3300 - Organic Farming Credit: 3.
- CEE 3413 - Environmental Engineering Credit: 3.
- CHE 4550 - Green Engineering Credit: 3.
- ESS 3710 - Chemistry and the Environment Credit: 3.
- GEOG 3200/GEOL 3200 - Water Resources Credit: 3.
- WFS 4730 (5730) - Conservation Biology Credit: 3

ESS-ELCP - Environmental & Sustainability Studies, Environmental Leadership, Communication and Policy Concentration, B.S.

Program Overview

Program Long Title

Environmental & Sustainability Studies, Environmental Leadership, Communication and Policy Concentration, B.S.

College/School

Emerging and Integrative Studies

Department(s)

Environmental Studies

Degree Map

Degree Map Name

Degree Plan - Environmental and Sustainability Studies, Environmental Leadership, Communication and Policy Concentration, B.S.

Total Degree Map Credits

120

Degree Map Effective Catalog Year

2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- CHEM1010 - Introductory Chemistry I
  OR
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Elective
  (Generic)

Actual Credits 2

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ESS1100 - Intro to Environmental Studies

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1910 - Calculus I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- BIOL1020 - Diversity of Life

Actual Credits 4

Requirement Select
- Elective
  (Generic)

Actual Credits 1

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- POLS1030 - American Government

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- ESS2100 - Environment and Ethics

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- COMM2075 - Organizational Communication
  OR
- PC3250 - Professional Comm I

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology
  OR
- GEOL1045 - Earth Environ Resrces Soc

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- JOUR1110 - Media and Social Institutions
  OR
- JOUR2200 - Mass Comm/Changing Society
  OR
- JOUR3460 - Intro to Public Relations

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- COMM3040 - Event Planning/Risk Management
  OR
- COMM3000 - Computer Mediated Comm
  OR
- COMM3630 - Discuss & Parliament Procedure

Actual Credits 3

Requirement Select
- ESS3000 - Intro to Environmental Law

Actual Credits 3

Requirement Select
- ESS3200 - Nonprofit Org & the Envirnmnt
  OR
- HIST3900 - Environmental History

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- BIOL4220 - Biostatistics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- BIOL3120 - General Ecology
  OR
- BIOL3130 - General Ecology

Actual Credits 3 - 4

Requirement Select
- Elective
  (Generic)

Actual Credits 3 - 2

Requirement Select
- ESS3100 - Global Sust Issues/Initiatives

Actual Credits 3

Requirement Select
- ESS3710 - Chemistry and the Environment

Actual Credits 3

Requirement Select
- ESS4110 - Human Dimensions/Nat Res Mgmt
  OR
- SOC3600 - Environmental Sociology

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- AGBE4120 - Natural Resource Economics

Actual Credits 3

Requirement Select
- BMGT4520 - Organizational Leadership
  OR
- LIST3500 - Non-Profit Leadership

Actual Credits 3

Requirement Select
- COMM3080 - Comm & Effective Team Work
  OR
- LIST3410 - Team Bldg/Workplace Dynamics
  OR
- LIST4300 - Workplace Performance

Actual Credits 3

Requirement Select
- ESS4001 - Society/Envrmnt-Capstone Exp 1

Actual Credits 3

Requirement Select
- ESS4300 - Environmental Mgmt System

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- ECON4200 - Environmental Economics

Actual Credits 3

Requirement Select
- Elective
  (Generic)

Actual Credits 3

Requirement Select
- ESS4093 - Special Topics
  OR
- ESS4100 - National Parks/Protected Areas
  OR
- ESS4900 - Internship
  OR
- GEOG4510 - Theory of GIS I

Actual Credits 3

Requirement Select
- ESS4002 - Society/Envmnt-Capstone Exp 2

Actual Credits 3

Requirement Select
- POLS3670 - Foreign Policy
  OR
- POLS4610 - Public Admin/Public Policy
  OR
- WFS4500 - National Wildlife Policy

Actual Credits 3

ESS-ESBI - Environmental & Sustainability Studies, Environmental Science Biology Concentration, B.S.

Program Overview

Program Long Title
Environmental & Sustainability Studies, Environmental Science Biology Concentration, B.S.

College/School
Emerging and Integrative Studies

Department(s)
Environmental Studies

Degree Map

Degree Map Name
Degree Plan - Environmental and Sustainability Studies, Environmental Science Biology Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- Elective
  (Generic)

Actual Credits 2

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ESS1100 - Intro to Environmental Studies

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1910 - Calculus I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology
  OR
- GEOL1045 - Earth Environ Resrces Soc

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	14

Requirement Select
- BIOL2310 - General Botany

Actual Credits 4

Requirement Select
- CHEM1010 - Introductory Chemistry I
  OR
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- ESS2100 - Environment and Ethics

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- BIOL3120 - General Ecology
  OR
- BIOL3130 - General Ecology

Actual Credits 3

Requirement Select
- Elective
  (Generic)

Actual Credits 1

Requirement Select
- ESS3000 - Intro to Environmental Law

Actual Credits 3

Requirement Select
- ESS3200 - Nonprofit Org & the Envirnmnt
  OR
- HIST3900 - Environmental History

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- BIOL4220 - Biostatistics

Actual Credits 3

Requirement Select
- ESS/Environmental Science-Biology - Science Elective

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Elective
  (Generic)

Actual Credits 3

Requirement Select
- ESS3100 - Global Sust Issues/Initiatives

Actual Credits 3

Requirement Select

- ESS3710 - Chemistry and the Environment

Actual Credits 3

Requirement Select

- ESS4110 - Human Dimensions/Nat Res Mgmt
  OR
- SOC3600 - Environmental Sociology

Actual Credits 3

Requirement Select

- ESS/Environmental Science-Biology - Science Elective

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select

- AGBE4120 - Natural Resource Economics
  OR
- ECON4120 - Natural Resource Economics

Actual Credits 3

Requirement Select

- BIOL3140 - Cellular Biology
  OR
- BIOL3200 - General Microbiology
  OR
- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select

- ESS/Environmental Science-Biology - Directed Elective

Actual Credits 6

Requirement Select

- ESS4001 - Society/Envrmnt-Capstone Exp 1

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- ESS/Environmental Science-Biology - Directed Elective

Actual Credits 6

Requirement Select

- Elective
  (Generic)

Actual Credits 6

Requirement Select

- ESS4002 - Society/Envmnt-Capstone Exp 2

Actual Credits 3

Requirement Select

- Note:
  1 Science Elective Two of the following: AGRN 3000 - Soils GEOG 3200/GEOL 3200 - Water Resources GEOG 4510 (5510) - Theory of GIS I PHYS 2010 - Algebra-based Physics I
  (Generic)

Actual Credits -

Requirement Select

- 2 Directed Elective Four of the following: AGHT 3450 - Dendrology BIOL 3240 - Field Botany BIOL 3330 - Entomology BIOL 4130 (5130) - Environmental Microbiology BIOL 4170 (5170) - Population and Conservation Genetics BIOL 4230 (5230) - Animal Behavior BIOL 4330 (5330) - Plant Ecology BIOL 4610 (5610) - Invertebrate Zoology BIOL 4630 (5630) - Ornithology BIOL 4650 (5650) - Marine Biology BIOL 4810 (5810) - Ichthyology BIOL 4820 (5820) - Mammalogy BIOL 4830 (5830) - Herpetology BIOL 4840 (5840) - Limnology WFS 4730 (5730) - Conservation Biology
  (Generic)

Actual Credits -

ESS-ESCH - Environmental & Sustainability Studies, Environmental Science Chemistry Concentration, B.S.

Program Overview

Program Long Title

Environmental & Sustainability Studies, Environmental Science Chemistry Concentration, B.S.

College/School

Emerging and Integrative Studies

Department(s)

Environmental Studies

Degree Map

Degree Map Name

Degree Plan - Environmental and Sustainability Studies, Environmental Science Chemistry Concentration, B.S.

Total Degree Map Credits

120

Degree Map Effective Catalog Year

2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Elective (Generic)

Actual Credits 2 - 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ESS1100 - Intro to Environmental Studies

Actual Credits 3

Requirement Select
- MATH1830 - Applied Calculus

  OR
- MATH1910 - Calculus I

Actual Credits 3 - 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- BIOL1020 - Diversity of Life

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	14

Requirement Select
- CHEM3010 - Organic Chemistry I

Actual Credits 4

Requirement Select
- GEOL1040 - Physical Geology

  OR
- GEOL1045 - Earth Environ Resrces Soc

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- AGRN3000 - Soils

Actual Credits 4

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- CHEM3020 - Organic Chemistry II

Actual Credits 4

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- ESS2100 - Environment and Ethics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- BIOL3120 - General Ecology
  OR
- BIOL3130 - General Ecology

Actual Credits 3 - 4

Requirement Select
- CHEM3410 - Quantitative Analysis

Actual Credits 4

Requirement Select
- Elective
  (Generic)

Actual Credits 3 - 2

Requirement Select
- ESS3000 - Intro to Environmental Law

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- ESS3100 - Global Sust Issues/Initiatives

Actual Credits 3

Requirement Select
- ESS3200 - Nonprofit Org & the Envirnmnt
  OR
- HIST3900 - Environmental History

Actual Credits 3

Requirement Select
- ESS4110 - Human Dimensions/Nat Res Mgmt
  OR
- SOC3600 - Environmental Sociology

Actual Credits 3

Requirement Select
- GEOL3200 - Water Resources

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- AGBE4120 - Natural Resource Economics
  OR
- ECON4120 - Natural Resource Economics

Actual Credits 3

Requirement Select
- CHEM4710 - Environmental Chemistry

Actual Credits 3

Requirement Select
- ESS4001 - Society/Envrmnt-Capstone Exp 1

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- BIOL4220 - Biostatistics

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- ESS/Environmental Science-Chemistry - Directed Elective

Actual Credits 5 - 7

Requirement Select
- ESS4002 - Society/Envmnt-Capstone Exp 2

Actual Credits 3

Requirement Select
- Elective
  (Generic)

Actual Credits 5 - 3

Requirement Select

- 1 Directed Elective:
  Two of the following: AGRN 3230 - Environmental Soil Science AGRN 4220 (5220) - Environmental Soil Chemistry BIOL 4840 (5840) - Limnology BIOL 4850 (5850) - Applied Microbiology CHEM 4720 (5720) - Advanced Environmental Chemistry CHEM 4992 - Undergraduate Research or CHEM 4993 - Undergraduate Research ESS 4093 - Special Topics ESS 4300 - Environmental Management System ESS 4900 - Internship GEOG 4510 (5510) - Theory of GIS I GEOG 4511 (5511) - Theory of GIS II GEOG 4650 (5650) - Environmental Applications of GIS GEOL 4300 (5300) - Environmental Aqueous Geochemistry WFS 4500 (5500) - National Wildlife Policy WFS 4730 (5730) - Conservation Biology
  (Generic)

Actual Credits -

ESS-ESNR - Environmental & Sustainability Studies, Natural Resources Concentration, B.S.

Program Overview

Program Long Title

Environmental & Sustainability Studies, Natural Resources Concentration, B.S.

College/School

Emerging and Integrative Studies

Department(s)

Environmental Studies

Degree Map

Degree Map Name
Degree Plan - Environmental and Sustainability Studies, Natural Resources Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select

- BIOL1020 - Diversity of Life

Actual Credits 4

Requirement Select

- Elective
  (Generic)

Actual Credits 3 - 2

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- ESS1100 - Intro to Environmental Studies

Actual Credits 3

Requirement Select

- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1910 - Calculus I

Actual Credits 3 - 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	13

Requirement Select

- CHEM1010 - Introductory Chemistry I
  OR
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Elective
  (Generic)

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology
  OR
- GEOL1045 - Earth Environ Resrces Soc

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- ESS/Natural Resources - Directed Elective

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- ESS2100 - Environment and Ethics

Actual Credits 3

Requirement Select
- ESS3710 - Chemistry and the Environment

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- BIOL4220 - Biostatistics
  OR
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- ESS/Natural Resources - Directed Elective

Actual Credits 3

Requirement Select
- ESS3000 - Intro to Environmental Law

Actual Credits 3

Requirement Select
- ESS3100 - Global Sust Issues/Initiatives

Actual Credits 3

Requirement Select
- ESS3200 - Nonprofit Org & the Envirnmnt
  OR
- HIST3900 - Environmental History

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- AGRN3000 - Soils

Actual Credits 4

Requirement Select
- BIOL3120 - General Ecology
  OR
- BIOL3130 - General Ecology

Actual Credits 3 - 4

Requirement Select
- Elective
  (Generic)

Actual Credits 2 - 1

Requirement Select

- ESS4110 - Human Dimensions/Nat Res Mgmt
  OR
- SOC3600 - Environmental Sociology

Actual Credits 3

Requirement Select

- GEOL3200 - Water Resources

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- AGBE4120 - Natural Resource Economics
  OR
- ECON4120 - Natural Resource Economics

Actual Credits 3

Requirement Select

- BIOL4840 - Limnology
  OR
- ESS4093 - Special Topics
  OR
- GEOL4150 - Geomorphology

Actual Credits 3

Requirement Select

- ESS4001 - Society/Envrmnt-Capstone Exp 1

Actual Credits 3

Requirement Select

- ESS4900 - Internship
  OR
- AGET3110 - Natural Resource System
  OR
- ESS4300 - Environmental Mgmt System

Actual Credits 3

Requirement Select

- ESS/Natural Resources - Directed Elective

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- Elective
  (Generic)

Actual Credits 6

Requirement Select

- ESS/Natural Resources - Directed Elective

Actual Credits 3

Requirement Select

- ESS4002 - Society/Envmnt-Capstone Exp 2

Actual Credits 3

Requirement Select

- ESS4100 - National Parks/Protected Areas

Actual Credits 3

Requirement Select

- 1 Directed Electives • AGBE 2010 - World Food and Society Credit: 3. • AGHT 3450 - Dendrology Credit: 3. • BIOL 2310 - General Botany Credit: 4. • BIOL 3240 - Field Botany Credit: 3. • BIOL 4330 (5330) - Plant Ecology Credit: 3. • GEOG 4510 (5510) - Theory of GIS I Credit: 3. • GEOG 4511 (5511) - Theory of GIS II Credit: 3. • GEOG 4650 (5650) - Environmental Applications of GIS Credit: 3. • WFS 4730 (5730) - Conservation Biology Credit: 3. (Generic)

Actual Credits -

ESS-SCI - Environmental & Sustainability Studies, Environmental Science Concentration, B.S.

Program Overview

Program Long Title

Environmental & Sustainability Studies, Environmental Science Concentration, B.S.

College/School

Emerging and Integrative Studies

Department(s)

Environmental Studies

Degree Map

Degree Map Name

Degree Plan - Environmental and Sustainability Studies, Environmental Science Concentration, B.S.

Total Degree Map Credits

120

Degree Map Effective Catalog Year

2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- BIOL1020 - Diversity of Life

Actual Credits 4

Requirement Select
- Elective (Generic)

Actual Credits 2 - 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ESS1100 - Intro to Environmental Studies

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1910 - Calculus I

Actual Credits 3 - 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	13

Requirement Select
- CHEM1010 - Introductory Chemistry I
  OR
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Elective (Generic)

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- Elective (Generic)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology
  OR
- GEOL1045 - Earth Environ Resrces Soc

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- ESS2100 - Environment and Ethics

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- BIOL3120 - General Ecology
  OR
- BIOL3130 - General Ecology

Actual Credits 3 - 4

Requirement Select
- Elective
  (Generic)

Actual Credits 2 - 1

Requirement Select
- ESS3000 - Intro to Environmental Law

Actual Credits 3

Requirement Select
- ESS3200 - Nonprofit Org & the Envirnmnt
  OR
- HIST3900 - Environmental History

Actual Credits 3

Requirement Select
- CHEM3005 - Elementary Organic Chemistry

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- BIOL4220 - Biostatistics
  OR
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- ESS3100 - Global Sust Issues/Initiatives

Actual Credits 3

Requirement Select
- ESS3710 - Chemistry and the Environment

Actual Credits 3

Requirement Select
- ESS4110 - Human Dimensions/Nat Res Mgmt
  OR
- SOC3600 - Environmental Sociology

Actual Credits 3

Requirement Select
- GEOL3200 - Water Resources

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	17

Requirement Select
- AGBE4120 - Natural Resource Economics
  OR
- ECON4120 - Natural Resource Economics

Actual Credits 3

Requirement Select
- AGRN3000 - Soils

Actual Credits 4

Requirement Select
- ESS4093 - Special Topics
  OR
- ESS4300 - Environmental Mgmt System
  OR
- ESS4900 - Internship

Actual Credits 3

Requirement Select
- ESS4001 - Society/Envrmnt-Capstone Exp 1

Actual Credits 3

Requirement Select
- GEOL3550 - Paleoclimates
  OR
- GEOL4150 - Geomorphology

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- BIOL4840 - Limnology
  OR
- WFS4730 - Conservation Biology

Actual Credits 3

Requirement Select
- Elective
  (Generic)

Actual Credits 4

Requirement Select
- ESS4002 - Society/Envmnt-Capstone Exp 2

Actual Credits 3

Requirement Select
- GEOG4510 - Theory of GIS I

Actual Credits 3

ESS-SUST - Environmental & Sustainability Studies, Environmental Sustainability Concentration, B.S.

Program Overview

Program Long Title
Environmental & Sustainability Studies, Environmental Sustainability Concentration, B.S.

College/School
Emerging and Integrative Studies

Department(s)
Environmental Studies

Degree Map

Degree Map Name
Degree Plan - Environmental and Sustainability Studies, Environmental Sustainability Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- BIOL1020 - Diversity of Life

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Elective
  (Generic)

Actual Credits 2 - 1

Requirement Select
- ESS1100 - Intro to Environmental Studies

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1830 - Applied Calculus
  OR
- MATH1910 - Calculus I

Actual Credits 3 - 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	13

Requirement Select
- CHEM1010 - Introductory Chemistry I
  OR
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Elective
  (Generic)

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- AGBE2010 - World Food and Society

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology
  OR
- GEOL1045 - Earth Environ Resrces Soc

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- ESS2100 - Environment and Ethics

Actual Credits 3

Requirement Select
- GEOG2100 - Weather and Climate Systems

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- BIOL3120 - General Ecology
  OR
- BIOL3130 - General Ecology

Actual Credits 3 - 4

Requirement Select
- Elective
  (Generic)

Actual Credits 3 - 2

Requirement Select
- ESS3000 - Intro to Environmental Law

Actual Credits 3

Requirement Select
- ESS3200 - Nonprofit Org & the Envirnmnt
  OR
- HIST3900 - Environmental History

Actual Credits 3

Requirement Select
- ESS3710 - Chemistry and the Environment

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- BIOL4220 - Biostatistics
  OR
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- ESS3100 - Global Sust Issues/Initiatives

Actual Credits 3

Requirement Select

- ESS4093 - Special Topics
  OR
- ESS4900 - Internship

Actual Credits 3

Requirement Select

- ESS4110 - Human Dimensions/Nat Res Mgmt
  OR
- SOC3600 - Environmental Sociology

Actual Credits 3

Requirement Select

- GEOL3200 - Water Resources

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- AGBE4120 - Natural Resource Economics
  OR
- ECON4120 - Natural Resource Economics

Actual Credits 3

Requirement Select

- AGR4600 - Global Food Sys: Sust & Insc
  OR
- AGRN3300 - Organic Farming
  OR
- HEC4315 - Global Social Sustainability
  OR
- GEOL3550 - Paleoclimates

Actual Credits 3

Requirement Select

- Elective
  (Generic)

Actual Credits 3

Requirement Select

- ESS4001 - Society/Envrmnt-Capstone Exp 1

Actual Credits 3

Requirement Select

- ESS4300 - Environmental Mgmt System

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- ECON4200 - Environmental Economics

Actual Credits 3

Requirement Select

- Elective
  (Generic)

Actual Credits 6

Requirement Select

- ESS4002 - Society/Envmnt-Capstone Exp 2

Actual Credits 3

Requirement Select

- WFS4730 - Conservation Biology

Actual Credits 3

ESS-TECH - Environmental & Sustainability Studies, Environmental Technology Concentration, B.S.

Program Overview

Program Long Title

Environmental & Sustainability Studies, Environmental Technology Concentration, B.S.

College/School

Emerging and Integrative Studies

Department(s)

Environmental Studies

Degree Map

Degree Map Name

Degree Plan - Environmental and Sustainability Studies, Environmental Technology Concentration, B.S.

Total Degree Map Credits

120

Degree Map Effective Catalog Year

2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- Elective (Generic)

Actual Credits 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ESS1100 - Intro to Environmental Studies

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- Elective (Generic)

Actual Credits 1

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- BIOL1020 - Diversity of Life

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- ESS2100 - Environment and Ethics

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	13

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- BIOL3130 - General Ecology
  OR
- BIOL3120 - General Ecology

Actual Credits 4

Requirement Select
- CEE3413 - Environmental Engineering

Actual Credits 3

Requirement Select
- Elective
  (Generic)

Actual Credits 3

Requirement Select
- ESS3000 - Intro to Environmental Law

Actual Credits 3

Requirement Select
- ESS3200 - Nonprofit Org & the Envirnmnt
  OR
- HIST3900 - Environmental History

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- ESS3100 - Global Sust Issues/Initiatives

Actual Credits 3

Requirement Select
- ESS3710 - Chemistry and the Environment

Actual Credits 3

Requirement Select
- ESS4110 - Human Dimensions/Nat Res Mgmt
  OR
- SOC3600 - Environmental Sociology

Actual Credits 3

Requirement Select
- GEOL1040 - Physical Geology
  OR
- GEOL1045 - Earth Environ Resrces Soc

Actual Credits 4

Requirement Select
- MATH3070 - Statistical Methods I
  OR
- BIOL4220 - Biostatistics

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- AGBE4120 - Natural Resource Economics
  OR
- ECON4120 - Natural Resource Economics

Actual Credits 3

Requirement Select
- ESS/Environmental Technology - Directed Elective

Actual Credits 3

Requirement Select
- ESS4001 - Society/Envrmnt-Capstone Exp 1

Actual Credits 3

Requirement Select
- ESS4300 - Environmental Mgmt System

Actual Credits 3

Requirement Select
- GEOG4510 - Theory of GIS I

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select
- ESS/Environmental Technology - Directed Elective

Actual Credits 3

Requirement Select
- Elective
  (Generic)

Actual Credits 5

Requirement Select
- ESS4002 - Society/Envmnt-Capstone Exp 2

Actual Credits 3

Requirement Select

- GEOG4511 - Theory of GIS II

Actual Credits 3

Requirement Select

- Note:
  1 Directed Electives • CEE 4410 (5410) - Solid and Hazardous Waste Management Credit: 3. • CEE 4430 (5430) - Water and Wastewater Engineering Credit: 3. • CEE 4450 (5450) - Water Quality Modeling Credit: 3. • ESS 4093 - Special Topics Credit: 3. • ESS 4900 - Internship Credit: 3. • GEOG 3200 - Water Resources Credit: 3. or • GEOL 3200 - Water Resources Credit: 3. • GEOG 4210 (5210) - Cartography Credit: 3. • GEOG 4650 (5650) - Environmental Applications of GIS Credit: 3. • GEOG 4850 (5850) - Advanced GIS Credit: 3. • GEOL 4711 (5711) - Hydrogeology Credit: 4.
  (Generic)

Actual Credits -

NRES-MIN - Natural Resources Minor

Program Overview

Program Long Title
Natural Resources Minor

College/School
Emerging and Integrative Studies

Department(s)
Environmental Studies

Requirements

Simple Requirements

Natural Resources Minor

Type
Completion Requirement

Natural Resources (NRES) Minor

Curriculum:

Required Courses (6 credit hours)

- ESS 1100 - Introduction to Environmental Studies Credit: 3.
- ESS 4110 - Human Dimensions of Natural Resources Credit: 3.

Directed Elective Courses (9 credit hours) Soil, Water, and Air Protection (Select one course):

- AGRN 3000 - Soils Credit: 4.
- CHEM 4710 (5710) - Environmental Chemistry Credit: 3.
- ESS 3710 - Chemistry and the Environment Credit: 3.
- GEOL 3200/GEOG 3200 - Water Resources Credit: 3.

Biotic Conservation (Select one course):

- WFS 4711 (5711) - Fisheries Management Credit: 3.
- WFS 4730 (5730) - Conservation Biology Credit: 3.
- WFS 4770 (5770) - Nongame Species Management Credit: 3.

Policy and Technology (Select one course):

- AGBE 4120 (5120)/ECON 4120 - Natural Resource Economics Credit: 3.
- AGET 3110 - Natural Resource Systems Credit: 2. and AGET 3115 - Natural Resource Systems Laboratory Credit: 1.
- GEOG 4510 (5510) - Theory of GIS I Credit: 3.
- WFS 4500 (5500) - National Wildlife Policy Credit: 3.

PARK-MIN - Parks and Protected Areas Minor

Program Overview

Program Long Title
Parks and Protected Areas Minor

College/School
Emerging and Integrative Studies

Department(s)
Environmental Studies

Requirements

Simple Requirements

Parks and Protected Areas Minor

Type
Completion Requirement

Parks and Protected Areas (PARK) Minor

Curriculum:

Required Courses (9 credit hours):

- ESS 1100 - Introduction to Environmental Studies Credit: 3.
- ESS 4100 - National Parks and Protected Public Lands Credit: 3.
- ESS 4110 - Human Dimensions of Natural Resources Credit: 3.

Directed Electives Courses (6 credit hours) Human Dimensions Courses (Select one course):

- ESS 2100 - Environment and Ethics Credit: 3.
- ESS 3200 - Nonprofit Organizations and the Environment Credit: 3.
- HIST 3900 - Environmental History Credit: 3.
- SOC 3600 - Environmental Sociology Credit: 3.

Management and Protection Courses (Select one course):

- WFS 3500 - Wildlife Law Enforcement Credit: 3.
- WFS 4730 (5730) - Conservation Biology Credit: 3.
- WFS 4770 (5770) - Nongame Species Management Credit: 3.

Courses

Course Information

Course Title
Connections/Env-Sust Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
1020

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The course is designed to strengthen the student's connection to TTU by engaging the student in meaningful academic and nonacademic activities both in and out of the classroom. It emphasizes critical thinking in the formation of academic and social goals and support groups, and in self-management and development of study skills.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Intro to Environmental Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
1100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course is an introductory course to the field of environmental studies. Environmental problems are complex, involving interconnections between people, ecosystems and the biosphere. The solution to these problems requires an understanding of diverse areas of study, including chemistry, biology, ecology, toxicology, hydrology, psychology, sociology, anthropology, economics, ethics, history, law, politics, literature and communication.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Social/Behavioral Sciences).

Course Information

Course Title
Environmental Research I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
1200

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
An introductory practical course on research methods in the environmental sciences and allied fields. Students will be paired with a research mentor and will actively participate in an undergraduate research project.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Environment and Ethics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
2100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is designed to assist in developing students' understanding of the roles that environmental ethics impact upon professional and personal decision-making and leadership. Review of ethical frameworks, multi-cultural ethics and worldviews, and environmental perspectives provide a foundation for ethical decision making about environmental and sustainability issues.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Environmental Research II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
2200

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: ESS 1200; or previous research experience plus consent of instructor. An intermediate-level course on conducting research in the environmental sciences and allied fields. Students will be paired with a research mentor and will conduct an undergraduate research project, which may be a new project or a continuation of a research project initiated in ESS 1200; however, students will be more involved in the research design and implementation than in ESS 1200.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
ESS 1200; or previous research experience plus consent of instructor.

Course Information

Course Title
Environmental Sci Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
2300

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: ESS 1200 or ESS 2200; or previous research experience plus consent of instructor. A course on developing oral and written scientific communication skills necessary to convey research findings in a variety of formats used by professionals in the environmental sciences and allied fields. Students will learn basic principles of scientific writing and the process of developing oral and poster presentations for conferences, and manuscripts for scientific journals.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
ESS 1200 or ESS 2200; or previous research experience plus conent of instructor.

Course Information

Course Title
Intro to Environmental Law

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
3000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing or consent of instructor. The course presents the basics of environmental laws from local governments to international agreements emphasizing U.S. laws and the roles of federal and state agencies in our domestic legal. The interaction of law with policy formulation, implementation and enforcement, and opportunities for citizen involvement are reviewed.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Junior Standing or consent of instructor.

Course Information

Course Title
Global Sust Issues/Initiatives

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
3100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course will provide a broad overview of the most pressing sustainability issues globally, as well as common practices and innovative initiatives to address these issues.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Nonprofit Org & the Envirnmnt

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course will provide an overview of the role of the nonprofit sector in environmental advocacy, education, conservation, management, policy development, and sustainability; and as catalysis, intermediaries, and champions of environmental movements. While much of the focus will be on the U.S., the course will also include a comparative look at global environmentally focused non-governmental organizations (NGOs).

College/School
Emerging and Integrative Studies

Course Information

Course Title
Chemistry and the Environment

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
3710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CHEM 1010 or CHEM 1110. Concepts of environmental chemistry that include organic chemistry, polymer chemistry, the chemistry of the earth, water and air, biochemistry, and energy.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
CHEM 1010.

Course Information

Course Title
Society/Envrmnt-Capstone Exp 1

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
4001

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Senior standing. The course is the first semester of a two semester sequence that will be a case study to learn about the environmental issues and possible solutions. The first semester course will address interdisciplinary approaches to environmental issues, research methods and grantsmanship.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Senior Standing.

Course Information

Course Title
Society/Envmnt-Capstone Exp 2

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
4002

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ESS 4001 . The course topic will focus on a specific environmental issue facing society. The course will be conducted as a case study to learn about the environmental issues and possible solutions.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
ESS 4001.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
4091

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific topic related to Environmental & Sustainability Studies. Course may be repeated if topic is different. No more than a combined total of 9 hours of ESS 4091, 4092, and 4093 may be used for degree.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Consent of instructor and school director.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
4092

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific topic related to Environmental & Sustainability Studies. Course may be repeated if topic is different. No more than a combined total of 9 hours of ESS 4091, 4092, and 4093 may be used for degree.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Consent of instructor and school director.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
4093

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific topic related to Environmental & Sustainability Studies. Course may be repeated if topic is different. No more than a combined total of 9 hours of ESS 4091, 4092, and 4093 may be used for degree.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Consent of instructor and school director.

Course Information

Course Title
National Parks/Protected Areas

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Development of the national park idea as a uniquely American idea that has spread to nationals all over the globe. The concept of national parks has led to other protected land designations including state and federal forest reserves, state parks, nature preserves and natural areas, and wildlife refuges and preserves.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Human Dimensions/Nat Res Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Human dimensions of natural resources management uses social science perspectives for managing recreation uses and users on local, state and federally managed public lands. Concepts of carrying capacity, recreation user conflict management, and related topics are explored.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Adv Environmental Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
4200

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisites: ESS 2200 and ESS 2300; or previous research experience and consent of instructor. Pre- or Co-requisite: MATH 3070 or upper-division statistics course (e.g., AGBE 4210, BIOL 4220). An advanced course on conducting research in the environmental sciences and allied fields. Students will work with a research mentor as in ESS 1200 and ESS 2200, but the student will have a more prominent and independent role in experimental design, data analysis, scientific writing, and communicating research findings at a conference or by submitting a manuscript for publication.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
ESS 2200 and ESS 2300; or previous research experience and consent of instructor.

Prerequisite or corequisite:
MATH 3070 or upper-division statistics course (e.g. AGBE 4210, BIOL 4220).

Course Information

Course Title
Environmental Mgmt System

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
4300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The course is a case study that presents the student with the techniques, technologies, regulations and strategies that define industrial pollution prevention.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Field Based Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
4800

Credit Hours

Credit Hours:
1

Credit Hours:
6

Other Hours

Min:
1

Max:
6

Operator:
TO

Repeatable for Credit:
Yes

Course Description
The Field Based Learning courses allow the student to experience locations remote from Tennessee Tech campus, both domestically and internationally. Living and learning in locations distant from the university campus, allow for personal growth and expanding knowledge and skills, increasing group dynamics, and experiencing new locations and cultures.

College/School
Emerging and Integrative Studies

Syllabus
SOES 4800 Field Experience Syallabuss (03 13 2025).pdf

Requisites and Restrictions

Prerequisite:
Junior standing or higher.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESS

Course Number
4900

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: At least 9 hours in ESS coursework and junior standing. Students work with a public or private agency or organization that is compatible with their interests in environmental and sustainability studies. (May be taken up to three times (9 hours) if assignments are with different organizations or with different divisions within an organization.)

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
At least 9 hours in ESS coursework and Junior Standing.

Exercise Science Department

The educational experiences and training opportunities (undergraduate, graduate, and doctoral) offered by our nationally accredited degree programs are cutting-edge, hands-on, and in-depth. Our mission promotes wellness education at all levels, the development of an enhanced quality of life, and healthy engagement through participation in physical activities and sport.

Programs

AQUA-MIN - Aquatics Minor

Program Overview

Program Long Title
Aquatics Minor

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Aquatics Minor

Type
Completion Requirement

Aquatics (AQUA) Minor

Earn at least 15 credits from the following:

- PHED1020 - Swimming
- PHED1021 - Intermediate Swimming
- PHED1022 - Survival Swimming
- PHED1160 - Scuba and Skin Diving
- PHED1190 - Water Aerobics
- PHED1220 - Active Lifestyle and Health
- PHED1280 - Kayaking
- PHED1505 - Divemaster
- PHED1540 - Rescue Diver
- PHED1550 - Adv Open Water Scuba Diving
- PHED1650 - Outdoor Water Skills
- EXPW1150 - Care/Prevention-Athl Injuries
- EXPW2100 - Lifeguard Training
- EXPW2440 - Safety & Accident Prevention
- EXPW3050 - Water Safety Inst Course
- EXPW4560 - Facility Planning & Mgmt

The Aquatics minor requires a total of 15 credits from this list of courses and at least 5 hours at 2000 level or above.

C-MIN - Coaching Minor

Program Overview

Program Long Title
Coaching Minor

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Coaching Minor

Type
Completion Requirement

Coaching (C) Minor

Earn at least 15 credits from the following:

- EXPW1150 - Care/Prevention-Athl Injuries
- EXPW3091 - Coaching Individual Sports
- EXPW3180 - Intro to Coaching
- EXPW4032 - Training for Performance
- EXPW4171 - Exercise & Sport Psychology
- EXPW4540 - Ethical Issues in Sport

EXSC-EXPH - Exercise Science, Exercise Physiology Concentration, B.S.

Program Overview

Program Long Title
Exercise Science, Exercise Physiology Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Exercise Science, Exercise Physiology Concentration, B.S. (120 hours)

Type
Completion Requirement

Exercise Science, Exercise Physiology Conc. - Required Courses

Complete ALL of the following Courses:

- PHED1002 - Physical Fitness Test
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- EXPW1021 - Connections to EXPW
- EXPW1022 - Introduction to EXPW
- EXPW1150 - Care/Prevention-Athl Injuries
- EXPW2160 - Drug Use and Abuse
- EXPW2200 - Leadership Development in Exercise Science & Sport
  OR EXPW3200 - Leadership Dev-Ex Sci/Sprt II
- EXPW2430 - First Aid, Safety & CPR
- EXPW2900 - Structural Anatomy
- EXPW3170 - Motor Learning
- EXPW3410 - Lifespan Motor Development
- EXPW3032 - Exercise Prescrip/Fit-Wellness
- EXPW3310 - Professional Preparation
- EXPW4171 - Exercise & Sport Psychology
- EXPW4420 - Kinesiology
- EXPW3500 - Phys Activity, Hlth/Sp Pop
- EXPW4032 - Training for Performance
- EXPW4440 - Physiology of Exercise
- EXPW4520 - Adapted Phys Activity-Sport
- EXPW4730 - Assmnt & Eval in Exerc Sci
- EXPW4042 - Health Promotion
- EXPW4442 - Performance/Recovery in Sport
- EXPW4760 - Functional Movement
- EXPW4830 - Field Experience
- EXPW4900 - Research Methods/Exrc Sci
- BIOL2010 - Human Anatomy & Physiology I
- BIOL2020 - Human Anatomy & Physiology II
- HEC2020 - Nutrition
- PSY1030 - Introduction to Psychology
- ELECTIVE - Elective Credit

Additional Requirements: Electives (6 cr.)

Quantitative Reasoning and Analysis Electives (3 cr.)

Earn at least 3 credits from the following:

- Quantitative Reasoning and Analysis (FFQR)

Humanities and Cultural Expression electives (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Social/Behavioral Science elective (3 cr.)

Earn at least 3 credits from the following:

- Social and Behavioral Sciences (GEDS)

Scientific Reasoning Electives (8cr.)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Financial Literacy or Digital Literacy electives (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Exercise Science, Exercise Physiology Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- EXPW1021 - Connections to EXPW
  OR
- or equivalent (1 cr)
  (Generic)

Actual Credits 1

Requirement Select

- EXPW1022 - Introduction to EXPW
  OR
- or equivalent (1 cr)
  (Generic)

Actual Credits 2

Requirement Select

- HEC2020 - Nutrition

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- EXPW1150 - Care/Prevention-Athl Injuries

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- EXPW2160 - Drug Use and Abuse

Actual Credits 2

Requirement Select
- EXPW2200 - Leadership Development in Exercise Science & Sport
  OR
- EXPW3200 - Leadership Dev-Ex Sci/Sprt II

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- BIOL2020 - Human Anatomy & Physiology II

Actual Credits 4

Requirement Select
- EXPW2430 - First Aid, Safety & CPR

Actual Credits 2

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- EXPW3170 - Motor Learning

Actual Credits 3

Requirement Select
- EXPW3410 - Lifespan Motor Development

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- EXPW2900 - Structural Anatomy

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	13

Requirement Select
- Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- EXPW3032 - Exercise Prescrip/Fit-Wellness

Actual Credits 3

Requirement Select
- EXPW3310 - Professional Preparation

Actual Credits 1

Requirement Select
- EXPW4171 - Exercise & Sport Psychology

Actual Credits 3

Requirement Select
- EXPW4420 - Kinesiology

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- EXPW3500 - Phys Activity, Hlth/Sp Pop

Actual Credits 3

Requirement Select
- EXPW4032 - Training for Performance

Actual Credits 3

Requirement Select
- EXPW4440 - Physiology of Exercise

Actual Credits 3

Requirement Select
- EXPW4520 - Adapted Phys Activity-Sport

Actual Credits 3

Requirement Select
- EXPW4730 - Assmnt & Eval in Exerc Sci

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- EXPW4042 - Health Promotion

Actual Credits 3

Requirement Select
- EXPW4442 - Performance/Recovery in Sport

Actual Credits 3

Requirement Select
- EXPW4760 - Functional Movement

Actual Credits 3

Requirement Select
- EXPW4830 - Field Experience

Actual Credits 3

Requirement Select
- EXPW4900 - Research Methods/Exrc Sci

Actual Credits 3

EXSC-EXSC - Exercise Science, Exercise Science concentration, B.S.

Program Overview

Program Long Title
Exercise Science, Exercise Science concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Exercise Science, Exercise Science Concentration, B.S.

Type
Completion Requirement

Exercise Science, Exercise Science Concentration, B.S.

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- PSY1030 - Introduction to Psychology
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
- BIOL1010 - Introduction to Biology
  OR BIOL1113 - General Biology I
- BIOL1020 - Diversity of Life
  OR BIOL1123 - General Biology II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
3. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Quantitative Reasoning and Analysis (3 cr.)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Humanities and Cultural Expression (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Social/Behavioral Science Elective (3 cr.)

Earn at least 3 credits from the following:

- Social and Behavioral Sciences (GEDS)

Exercise Science Core Requirements

Complete ALL of the following Courses:

- EXPW1021 - Connections to EXPW
- EXPW1022 - Introduction to EXPW
- EXPW1150 - Care/Prevention-Athl Injuries
- EXPW2430 - First Aid, Safety & CPR
- EXPW2200 - Leadership Development in Exercise Science & Sport
- EXPW2900 - Structural Anatomy
- EXPW3170 - Motor Learning
- EXPW3310 - Professional Preparation
- EXPW3410 - Lifespan Motor Development
- EXPW3500 - Phys Activity, Hlth/Sp Pop
- EXPW4032 - Training for Performance
  OR EXPW4760 - Functional Movement
- EXPW4171 - Exercise & Sport Psychology
- EXPW4420 - Kinesiology
- EXPW4440 - Physiology of Exercise
- EXPW4520 - Adapted Phys Activity-Sport
- EXPW4730 - Assmnt & Eval in Exerc Sci
- EXPW4900 - Research Methods/Exrc Sci
- BIOL2350 - Intro Anatomy & Physiology
  OR BIOL2010 - Human Anatomy & Physiology I
- HEC1030 - Introduction to Nutrition (Inactive)
  OR HEC2020 - Nutrition
- PHED1002 - Physical Fitness Test

Additional Requirements:

Directed Electives (13 credits) - taken from the approved list: BIOL 2020, BMGT 3510, CHEM 1010, CHEM 1020, EXPW 2235, EXPW 3235, EXPW 3420, EXPW 3430, EXPW 3500, EXPW 3565, EXPW 4032, EXPW 4042, EXPW 4235, EXPW 4275, EXPW 4530, EXPW 4540, EXPW 4550, EXPW 4560, EXPW 4580, EXPW 4760, EXPW 4920, or HEC 4940.

General Electives (14 credits)

PHED 1002 - Physical Fitness Exam (to be taken once per academic year while enrolled in the program.

Financial or Digital Literacy electives (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Exercise Science Degree Map
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Year 1	Fall	16

Requirement Select
- BIOL1010 - Introduction to Biology
  OR
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- EXPW1021 - Connections to EXPW

Actual Credits 1

Requirement Select
- EXPW1022 - Introduction to EXPW

Actual Credits 2

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Year 1	Spring	15

Requirement Select
- BIOL1020 - Diversity of Life
  OR
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- EXPW1150 - Care/Prevention-Athl Injuries

Actual Credits 3

Requirement Select
- EXPW2430 - First Aid, Safety & CPR

Actual Credits 2

Requirement Select
- Directed Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Fall	15

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- EXPW2900 - Structural Anatomy

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Spring	16

Requirement Select
- BIOL2350 - Intro Anatomy & Physiology
  OR
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- EXSC/Exercise Science Concentration

Actual Credits 3

Year	Semester	Actual Credits
Year 3	Fall	15

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- HEC1030 - Introduction to Nutrition (Inactive)
  OR
- HEC2020 - Nutrition

Actual Credits 3

Requirement Select
- EXPW3410 - Lifespan Motor Development

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- EXSC/Exercise Science Concentration

Actual Credits 4

Requirement Select
- Electives (2 cr.)
  (Generic)

Actual Credits 2

Year	Semester	Actual Credits
Year 3	Spring	15

Requirement Select
- EXPW3500 - Phys Activity, Hlth/Sp Pop

Actual Credits 3

Requirement Select
- EXPW3170 - Motor Learning

Actual Credits 3

Requirement Select
- EXPW3310 - Professional Preparation

Actual Credits 1

Requirement Select
- EXPW2200 - Leadership Development in Exercise Science & Sport

Actual Credits 3

Requirement Select
- Electives (5 cr.)
  (Generic)

Actual Credits 5

Year	Semester	Actual Credits
Year 4	Fall	12

Requirement Select
- EXPW4520 - Adapted Phys Activity-Sport

Actual Credits 3

Requirement Select
- EXPW4730 - Assmnt & Eval in Exerc Sci

Actual Credits 3

Requirement Select
- EXPW4420 - Kinesiology

Actual Credits 3

Requirement Select
- Directed Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Year 4	Spring	16

Requirement Select
- EXPW4171 - Exercise & Sport Psychology

Actual Credits 3

Requirement Select
- EXPW4032 - Training for Performance
  OR
- EXPW4760 - Functional Movement

Actual Credits 3

Requirement Select
- EXPW4440 - Physiology of Exercise

Actual Credits 3

Requirement Select
- EXPW4900 - Research Methods/Exrc Sci

Actual Credits 3

Requirement Select
- Electives (4 cr.)
  (Generic)

Actual Credits 4

EXSC-FW - Exercise Science, Fitness and Wellness Concentration, B.S.

Program Overview

Program Long Title
Exercise Science, Fitness and Wellness Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Exercise Science, Fitness & Wellness Concentration, B.S. (120 hrs)

Type
Completion Requirement

Exercise Science, Fitness & Wellness Concentration - Required Courses

Complete ALL of the following Courses:
- EXPW1021 - Connections to EXPW
- EXPW1022 - Introduction to EXPW
- EXPW1150 - Care/Prevention-Athl Injuries
- EXPW2160 - Drug Use and Abuse
- EXPW2200 - Leadership Development in Exercise Science & Sport
  OR EXPW3200 - Leadership Dev-Ex Sci/Sprt II
- EXPW2430 - First Aid, Safety & CPR
- EXPW2900 - Structural Anatomy
- EXPW3170 - Motor Learning
- EXPW3410 - Lifespan Motor Development
- EXPW3032 - Exercise Prescrip/Fit-Wellness
- EXPW3310 - Professional Preparation
- EXPW4171 - Exercise & Sport Psychology
- EXPW4420 - Kinesiology
- EXPW4032 - Training for Performance
- EXPW4440 - Physiology of Exercise
- EXPW4520 - Adapted Phys Activity-Sport
- EXPW4730 - Assmnt & Eval in Exerc Sci
- EXPW4042 - Health Promotion
- EXPW4760 - Functional Movement
- EXPW4810 - Field Experience
- EXPW4900 - Research Methods/Exrc Sci
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- HEC2020 - Nutrition
- PSY1030 - Introduction to Psychology
- BIOL2010 - Human Anatomy & Physiology I
- BIOL2020 - Human Anatomy & Physiology II
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
- BMGT3510 - Mgmt/Organizational Behavior
- PHED1002 - Physical Fitness Test
- ELECTIVE - Elective Credit

Additional Requirement: Electives (9 hours)

Quantitative Reasoning and Analysis Elective (3 cr.)

Earn at least 3 credits from the following:
- Quantitative Reasoning and Analysis (FFQR)

Humanities/Cultural Exression Arts Electives (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Social/Behavioral Science elective (3 cr.)

Earn at least 3 credits from the following:

- Social and Behavioral Sciences (GEDS)

Scientific Reasoning electives (8 cr.)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Financial or Digital Literacy electives (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Exercise Science, Fitness and Wellness Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- EXPW1021 - Connections to EXPW
  OR
- or equivalent
  (Generic)

Actual Credits 1

Requirement Select
- EXPW1022 - Introduction to EXPW
  OR
- or equivalent
  (Generic)

Actual Credits 2

Requirement Select
- HEC2020 - Nutrition

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- EXPW1150 - Care/Prevention-Athl Injuries

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- EXPW2200 - Leadership Development in Exercise Science & Sport
  OR
- EXPW3200 - Leadership Dev-Ex Sci/Sprt II

Actual Credits 3

Requirement Select
- EXPW2160 - Drug Use and Abuse

Actual Credits 2

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- BIOL2020 - Human Anatomy & Physiology II

Actual Credits 4

Requirement Select
- EXPW2430 - First Aid, Safety & CPR

Actual Credits 2

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- EXPW2900 - Structural Anatomy

Actual Credits 3

Requirement Select
- EXPW3170 - Motor Learning

Actual Credits 3

Requirement Select
- EXPW3410 - Lifespan Motor Development

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	13

Requirement Select
- EXPW3310 - Professional Preparation

Actual Credits 1

Requirement Select
- EXPW3032 - Exercise Prescrip/Fit-Wellness

Actual Credits 3

Requirement Select
- EXPW4171 - Exercise & Sport Psychology

Actual Credits 3

Requirement Select
- EXPW4420 - Kinesiology

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- EXPW4032 - Training for Performance

Actual Credits 3

Requirement Select
- EXPW4440 - Physiology of Exercise

Actual Credits 3

Requirement Select
- EXPW4520 - Adapted Phys Activity-Sport

Actual Credits 3

Requirement Select
- EXPW4730 - Assmnt & Eval in Exerc Sci

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- EXPW4042 - Health Promotion

Actual Credits 3

Requirement Select
- EXPW4760 - Functional Movement

Actual Credits 3

Requirement Select
- EXPW4810 - Field Experience

Actual Credits 3

Requirement Select
- EXPW4900 - Research Methods/Exrc Sci

Actual Credits 3

Requirement Select
- * PHED 1002 is taken once per academic year while in this major.
  (Generic)

Actual Credits -

EXSC-L - Exercise Science, Licensure Concentration, B.S.

Program Overview

Program Long Title
Exercise Science, Licensure Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Exercise Science, Licensure Concentration, B.S. (120 hours)

Type
Completion Requirement

Exercise Science, Licensure Concentration Course Requirements

Complete ALL of the following Courses:
- EXPW1021 - Connections to EXPW
- EXPW1022 - Introduction to EXPW
- EXPW2900 - Structural Anatomy
- EXPW3170 - Motor Learning
- EXPW2430 - First Aid, Safety & CPR
- EXPW2015 - Concepts of Health/Wellness
- EXPW3565 - Physical Activity/Sport Skills
- EXPW3720 - Instructional Strategies
- EXPW4420 - Kinesiology
- EXPW4731 - Assessment in PE Classroom
- EXPW3660 - Curriculum in Physical Education
- EXPW4845 - Phys Educ Field Experience
- EXPW3132 - School Wellness Pedagogy/Pract
- EXPW3310 - Professional Preparation
- EXPW3410 - Lifespan Motor Development
- EXPW4440 - Physiology of Exercise
- EXPW4722 - Meth of Tchng Elem PE
- EXPW4752 - Elementary PE Practicum
- EXPW4712 - Meth of Tchng Secondary PE
- EXPW4751 - Secondary PE Practicum
- EXPW4520 - Adapted Phys Activity-Sport
- EXPW3330 - First Aid/CPR Inst Training
- EXPW4874 - Professional Seminar I
- EXPW4882 - Professional Seminar II
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- PSY1030 - Introduction to Psychology
- PSY2210 - Educational Psychology
- PHED1002 - Physical Fitness Test
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
- FOED2050 - Education and Technology
- BIOL2350 - Intro Anatomy & Physiology

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer

student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

3. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundations - Quantitative Reasoning and Analysis(3 cr.)

Earn at least 3 credits from the following:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundations - Humanities and Cultural Expression (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundations Core-Scientific Reasoning (8 cr hrs)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Flight Foundations Core - Financial Literacy or Digital Literacy (FFDL)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Earn at least 6 credits from the following:

- Historical Foundations (FFHF)

Flight Foundations - Historical Foundations (6 cr.)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundations - Social and Behavioral Sciences (6 cr) - PSY1030 EXPW2015 fulfill this requirement and are part of the curriculum.

Degree Map

Degree Map Name
Degree Plan - Exercise Science, Licensure Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- EXPW1021 - Connections to EXPW
  OR
- Or equivalent (1 cr)
  (Generic)

Actual Credits 1

Requirement Select

- EXPW1022 - Introduction to EXPW
  OR
- Or equivalent (2 cr)
  (Generic)

Actual Credits 2

Requirement Select

- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select

- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select

- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- EXPW2900 - Structural Anatomy

Actual Credits 3

Requirement Select

- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- BIOL2350 - Intro Anatomy & Physiology
  OR
- or Advisor approved A&P (Generic)

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- EXPW3170 - Motor Learning

Actual Credits 3

Requirement Select
- EXPW2430 - First Aid, Safety & CPR

Actual Credits 2

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- EXPW2015 - Concepts of Health/Wellness

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- EXPW3565 - Physical Activity/Sport Skills

Actual Credits 3

Requirement Select
- EXPW3720 - Instructional Strategies

Actual Credits 3

Requirement Select
- EXPW4420 - Kinesiology

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- EXPW4731 - Assessment in PE Classroom

Actual Credits 2

Requirement Select
- EXPW3660 - Curriculum in Physical Education

Actual Credits 2

Requirement Select
- EXPW2720 - Lesson Planning 101

Actual Credits 2

Requirement Select
- EXPW4845 - Phys Educ Field Experience

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- EXPW3132 - School Wellness Pedagogy/Pract

Actual Credits 3

Requirement Select
- EXPW3310 - Professional Preparation

Actual Credits 1

Requirement Select
- EXPW3410 - Lifespan Motor Development

Actual Credits 3

Requirement Select
- EXPW4440 - Physiology of Exercise

Actual Credits 3

Requirement Select
- EXPW4722 - Meth of Tchng Elem PE

Actual Credits 3

Requirement Select
- EXPW4752 - Elementary PE Practicum

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- EXPW4520 - Adapted Phys Activity-Sport

Actual Credits 3

Requirement Select
- EXPW4874 - Professional Seminar I

Actual Credits 2

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- EXPW4712 - Meth of Tchng Secondary PE

Actual Credits 3

Requirement Select
- EXPW4751 - Secondary PE Practicum

Actual Credits 2

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- EXPW3330 - First Aid/CPR Inst Training

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- EXPW4883 - Residency

Actual Credits 10

Requirement Select
- EXPW4882 - Professional Seminar II

Actual Credits 2

EXSC-MIN - Exercise Science Minor

Program Overview

Program Long Title
Exercise Science Minor

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Exercise Science Minor

Type
Completion Requirement

Exercise Science (EXSC) Minor

Earn at least 15 credits from the following:
- EXPW3032 - Exercise Prescrip/Fit-Wellness
- EXPW3170 - Motor Learning
- EXPW3410 - Lifespan Motor Development
- EXPW4032 - Training for Performance
- EXPW4420 - Kinesiology
- EXPW4440 - Physiology of Exercise

EXSC-OT - Exercise Science, Pre-Occupational Therapy Concentration, B.S.

Program Overview

Program Long Title
Exercise Science, Pre-Occupational Therapy Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Exercise Science, Pre-Occupational Therapy Concentration, B.S. (120 hrs.)

Type
Completion Requirement

Exercise Science, Pre-Occupational Therapy Concentration - Required Courses

Complete ALL of the following Courses:

- EXPW1021 - Connections to EXPW
- EXPW1022 - Introduction to EXPW
- EXPW1120 - Intro to Occupational Therapy
- EXPW1150 - Care/Prevention-Athl Injuries
- EXPW2130 - Concepts-Comprehensive Health
  OR EXPW2015 - Concepts of Health/Wellness
- EXPW3170 - Motor Learning
- EXPW3310 - Professional Preparation
- EXPW2430 - First Aid, Safety & CPR
- EXPW2900 - Structural Anatomy
- EXPW3032 - Exercise Prescrip/Fit-Wellness
- EXPW4440 - Physiology of Exercise
- EXPW4820 - Field Experience
- EXPW4171 - Exercise & Sport Psychology
- EXPW4420 - Kinesiology
- EXPW4520 - Adapted Phys Activity-Sport
- EXPW4730 - Assmnt & Eval in Exerc Sci
- EXPW3550 - Support/Serv:Prs w/ Phys Imprm
- EXPW4900 - Research Methods/Exrc Sci
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- SOC1010 - Intro to Sociology
- PSY1030 - Introduction to Psychology
- MATH1530 - Introductory Statistics
- BIOL2010 - Human Anatomy & Physiology I
- BIOL2020 - Human Anatomy & Physiology II
- PHED1002 - Physical Fitness Test
- HEC2020 - Nutrition

Pre-Occupational Therapy Directed Electives (30 cr.)

Earn at least 30 credits from the following:

- EXSC/Pre-Occupational Therapy - Directed Elective

Humanities and Cultural Expression Electives (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Financial and Digital Literacy electives (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Exercise Science, Pre-Occupational Therapy Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- EXSC/Pre-Occupational Therapy - Directed Elective

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- EXPW1021 - Connections to EXPW
  OR
- or equivalent (1 cr)
  (Generic)

Actual Credits 1

Requirement Select
- EXPW1022 - Introduction to EXPW
  OR
- or equivalent (2 cr)
  (Generic)

Actual Credits 2

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- EXPW1120 - Intro to Occupational Therapy

Actual Credits 1

Requirement Select
- EXPW1150 - Care/Prevention-Athl Injuries

Actual Credits 3

Requirement Select
- EXPW2130 - Concepts-Comprehensive Health

  OR
- EXPW2015 - Concepts of Health/Wellness

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- EXSC/Pre-Occupational Therapy - Directed Elective

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- HEC2020 - Nutrition

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- BIOL2020 - Human Anatomy & Physiology II

Actual Credits 4

Requirement Select
- COMM2025 - Fundamentals of Communication

  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- EXSC/Pre-Occupational Therapy - Directed Elective

Actual Credits 2

Requirement Select
- EXPW3170 - Motor Learning

Actual Credits 3

Requirement Select
- EXPW3310 - Professional Preparation

Actual Credits 1

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- EXSC/Pre-Occupational Therapy - Directed Elective

Actual Credits 7

Requirement Select
- EXPW2430 - First Aid, Safety & CPR

Actual Credits 2

Requirement Select
- EXPW2900 - Structural Anatomy

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- EXSC/Pre-Occupational Therapy - Directed Elective

Actual Credits 7

Requirement Select
- EXPW3032 - Exercise Prescrip/Fit-Wellness

Actual Credits 3

Requirement Select
- EXPW4440 - Physiology of Exercise

Actual Credits 3

Requirement Select
- EXPW4820 - Field Experience

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Senior Year	First Semester	12

Requirement Select
- EXPW4171 - Exercise & Sport Psychology

Actual Credits 3

Requirement Select
- EXPW4420 - Kinesiology

Actual Credits 3

Requirement Select
- EXPW4520 - Adapted Phys Activity-Sport

Actual Credits 3

Requirement Select
- EXPW4730 - Assmnt & Eval in Exerc Sci

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- EXSC/Pre-Occupational Therapy - Directed Elective

Actual Credits 7

Requirement Select
- EXPW3550 - Support/Serv:Prs w/ Phys Imprm

Actual Credits 3

Requirement Select
- EXPW4900 - Research Methods/Exrc Sci

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- Directed Electives ANTH 1100 Introduction to Anthropology Credit 3. BIOL 1113 General Biology I Credit 4. BIOL 1123 - General Biology II Credit 4. BIOL 3140 - Cellular Biology Credit 4. BIOL 3230 - Health Science Microbiology Credit 4. CHEM 1110 - General Chemistry I Credit 4. CHEM 1120 - General Chemistry II Credit 4. HEC 2220 - Medical Terminology for the Human Sciences Credit 1. HEC 2550 - Children in Health Care Credit 3. HIT 1010 Medical Terminology Credit 3. (RODP Course) LIST 4050 - Sign Language I Credit 3. LIST 4090 - Sign Language II Credit 3. PHYS 2010 - Algebra-based Physics I Credit 4. PHYS 2020 - Algebra-based Physics II Credit 4. PSY 2130 - Life Span Development Psychology Credit 3. PSY 4160 (5160) - Abnormal Psychology Credit 3. SOCI 1120 Introduction to Cultural Anthropology Credit 3. SPAN 1015 - Spanish for Health Services Credit 3. SPED 2010 - Introduction to Special Education Credit 3. (Generic)

Actual Credits -

EXSC-PAT - Exercise Science, Pre-Athletic Training Concentration, B.S.

Program Overview

Program Long Title
Exercise Science, Pre-Athletic Training Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Exercise Science, Pre-Athletic Training Concentration, B.S. (120 hours)

Type
Completion Requirement

Exercise Science, Pre-Athletic Training Concentration Course Requirements

Complete ALL of the following Courses:

- BIOL2010 - Human Anatomy & Physiology I
- BIOL2020 - Human Anatomy & Physiology II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- MATH1530 - Introductory Statistics
- PSY1030 - Introduction to Psychology
- EXPW1021 - Connections to EXPW
- EXPW1022 - Introduction to EXPW
- EXPW1110 - Intro to Athletic Training
- EXPW1150 - Care/Prevention-Athl Injuries
- EXPW2002 - Orthopedic Assessment II
- EXPW2001 - Orthopedic Assessment I
- EXPW2200 - Leadership Development in Exercise Science & Sport
- EXPW2220 - Medical Terminology
- EXPW2430 - First Aid, Safety & CPR
- EXPW2900 - Structural Anatomy
- EXPW3001 - Therapeutic Rehab/Modalities
- EXPW3006 - Med Aspects/Athletic Training
- EXPW3011 - Clinical I
- EXPW3032 - Exercise Prescrip/Fit-Wellness
- EXPW3170 - Motor Learning
- EXPW3310 - Professional Preparation
- EXPW3410 - Lifespan Motor Development
- EXPW4001 - Senior Seminar
- EXPW4011 - Clinical II
- EXPW4420 - Kinesiology
- EXPW4440 - Physiology of Exercise
- EXPW4530 - Org & Admin/Interschool Athl
- EXPW4730 - Assmnt & Eval in Exerc Sci
- PHED1002 - Physical Fitness Test
- HEC2020 - Nutrition

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
3. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Humanities and Cultural Expression Arts (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Social/Behavioral Science (3 cr.)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Directed Electives

Earn at least 7 credits from the following:

- CHEM1110 - General Chemistry I
  OR CHEM1010 - Introductory Chemistry I
  OR CHEM1210 - Chemistry for Life Sciences
- PHYS2010 - Algebra-based Physics I
  OR PHYS1310 - Concepts of Physics
- EXPW4032 - Training for Performance
- EXPW4042 - Health Promotion

Complete 7 credits from: CHEM 1110 or CHEM 1010 or CHEM 1210, PHYS 2010 or PHYS 1310, EXPW 4032, EXPW 4042,

Scientific Reasoning (4 cr.)

BIOL 1010 Intro Biology or BIOL 1113 General Biology OR any 4-cr. Natural Science

Scientific Reasoning (4 cr.)

BIOL 1020 Diversity of Life or BIOL 1123 General Biology II OR any 4 cr. Natural Science.

Financial or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Exercise Science, Pre-Athletic Training Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- BIOL1010 - Introduction to Biology
  OR
- BIOL1113 - General Biology I
  OR
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- EXPW1021 - Connections to EXPW
  OR
- equivalent
  (Generic)

Actual Credits 1

Requirement Select
- EXPW1022 - Introduction to EXPW
  OR
- equivalent
  (Generic)

Actual Credits 2

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- BIOL1020 - Diversity of Life
  OR
- BIOL1123 - General Biology II
  OR
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- EXPW1110 - Intro to Athletic Training
  OR
- Equivalent
  (Generic)

Actual Credits 1

Requirement Select
- EXPW1150 - Care/Prevention-Athl Injuries

Actual Credits 3

Requirement Select
- EXPW2430 - First Aid, Safety & CPR

Actual Credits 2

Requirement Select
- HEC2020 - Nutrition

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- EXPW2001 - Orthopedic Assessment I

Actual Credits 4

Requirement Select
- EXPW2900 - Structural Anatomy

Actual Credits 3

Requirement Select
- EXPW2220 - Medical Terminology

Actual Credits 1

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- BIOL2020 - Human Anatomy & Physiology II

Actual Credits 4

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- EXPW2002 - Orthopedic Assessment II

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	13

Requirement Select
- EXPW3006 - Med Aspects/Athletic Training

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- EXSC/Pre-Athletic Training - Directed Elective

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- EXPW3001 - Therapeutic Rehab/Modalities

Actual Credits 3

Requirement Select
- EXPW3011 - Clinical I

Actual Credits 3

Requirement Select
- EXPW3170 - Motor Learning

Actual Credits 3

Requirement Select
- EXPW4730 - Assmnt & Eval in Exerc Sci

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select
- EXSC/Pre-Athletic Training - Directed Elective

Actual Credits 3

Requirement Select
- EXPW3310 - Professional Preparation

Actual Credits 1

Requirement Select
- EXPW4001 - Senior Seminar

Actual Credits 3

Requirement Select
- EXPW4011 - Clinical II

Actual Credits 3

Requirement Select
- EXPW4440 - Physiology of Exercise

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- EXPW3032 - Exercise Prescrip/Fit-Wellness

Actual Credits 3

Requirement Select
- EXPW3410 - Lifespan Motor Development

Actual Credits 3

Requirement Select
- EXPW4420 - Kinesiology

Actual Credits 3

Requirement Select
- EXPW4530 - Org & Admin/Interschool Athl

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- EXPW2200 - Leadership Development in Exercise Science & Sport

Actual Credits 3

Requirement Select
- Directed electives: CHEM 1110 or CHEM 1010 or CHEM 1210, PHYS 2010 or PHYS 1310, EXPW 4032, EXPW 4042
(Generic)

Actual Credits -

EXSC-PEPR - Exercise Science, Physical Education Practitioner Concentration, B.S.

Program Overview

Program Long Title
Exercise Science, Physical Education Practitioner Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Exercise Science, Physical Education Practitioner, B.S. (120 hrs)

Type
Completion Requirement

Exercise Science, Physical Education Practitioner Concentration

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
- PSY1030 - Introduction to Psychology
- EXPW2015 - Concepts of Health/Wellness
- PHED1002 - Physical Fitness Test
- EXPW1021 - Connections to EXPW
- EXPW1022 - Introduction to EXPW
- EXPW2200 - Leadership Development in Exercise Science & Sport
- EXPW2430 - First Aid, Safety & CPR
- EXPW2900 - Structural Anatomy
- EXPW3170 - Motor Learning
- EXPW3310 - Professional Preparation
- EXPW3410 - Lifespan Motor Development
- EXPW3565 - Physical Activity/Sport Skills
- EXPW3720 - Instructional Strategies
- EXPW4420 - Kinesiology
- EXPW4440 - Physiology of Exercise
- EXPW4520 - Adapted Phys Activity-Sport
- EXPW4731 - Assessment in PE Classroom
- EXPW4770 - Physical Education I
- EXPW4771 - Physical Education II
- FOED2050 - Education and Technology
- FOED3010 - Integrating Instructional Technology into the Classroom
- PSY2210 - Educational Psychology
- BIOL2350 - Intro Anatomy & Physiology

Directed Electives (6 credits) from: EXPW 2130, EXPW 2150, EXPW 3091, EXPW 3092, EXPW 3180, EXPW 4032, EXPW 4042, EXPW 4730, EXPW 4530, EXPW 4171, or EXPW 3330, EXPW 4900, or HEC 2020.

PE Activity (4 credits)

Electives (15 credits)

Scientific Reasoning (8 credits)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Quantitative Reasoning and Analysis (3 cr.)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Humanities and Cultural Expression (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Financial or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Exercise Science, Practitioner Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- EXPW1021 - Connections to EXPW
  OR
- equivalent (1 cr hr)
  (Generic)

Actual Credits 1

Requirement Select
- EXPW1022 - Introduction to EXPW
  OR
- equivalent (2 cr hr)
  (Generic)

Actual Credits 2

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- BIOL2350 - Intro Anatomy & Physiology
  OR
- advisor approved A&P course (4 credit hours)
  (Generic)

Actual Credits 4

Requirement Select
- EXPW3565 - Physical Activity/Sport Skills

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- EXPW2015 - Concepts of Health/Wellness

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- EXPW2430 - First Aid, Safety & CPR

Actual Credits 2

Requirement Select
- EXPW2900 - Structural Anatomy

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- EXPW2200 - Leadership Development in Exercise Science & Sport

Actual Credits 3

Requirement Select
- EXPW3170 - Motor Learning

Actual Credits 3

Requirement Select
- EXPW3310 - Professional Preparation

Actual Credits 1

Requirement Select
- EXPW3720 - Instructional Strategies

Actual Credits 3

Requirement Select
- EXPW4420 - Kinesiology

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Junior Year	Second Semester	13

Requirement Select
- EXPW3410 - Lifespan Motor Development

Actual Credits 3

Requirement Select
- EXPW4440 - Physiology of Exercise

Actual Credits 3

Requirement Select
- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- PHED Activity Courses (4 cr.)
  (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select

- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- EXPW4520 - Adapted Phys Activity-Sport

Actual Credits 3

Requirement Select

- EXPW4731 - Assessment in PE Classroom

Actual Credits 2

Requirement Select

- EXPW4770 - Physical Education I

Actual Credits 3

Requirement Select

- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select

- Directed Electives (3 cr)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select

- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select

- EXPW4771 - Physical Education II

Actual Credits 3

Requirement Select

- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select

- Directed Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- Suggested Directed Electives: Directed Electives (6 credits) from: EXPW 2130, EXPW 2150, EXPW 3091, EXPW 3092, EXPW 3180, EXPW 4032, EXPW 4042, EXPW 4730, EXPW 4530, EXPW 4171, or EXPW 3330, EXPW 4900, or HEC 2020.
  (Generic)

Actual Credits -

EXSC-PPA - Exercise Science, Pre-Physician's Assistant Concentration, B.S.

Program Overview

Program Long Title
Exercise Science, Pre-Physician's Assistant Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Exercise Science, Pre-Physician Assistant Concentration, B.S. (120 hours)

Type
Completion Requirement

Exercise Science, Pre-Physician Assistant Concentration Course Requirements

Complete ALL of the following Courses:

- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- BIOL2010 - Human Anatomy & Physiology I
- BIOL2020 - Human Anatomy & Physiology II
- BIOL3230 - Health Science Microbiology
- BIOL3810 - General Genetics
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- HEC2020 - Nutrition
- GEMATH - Mathematics
- MATH1530 - Introductory Statistics
  OR MATH3070 - Statistical Methods I
  OR BIOL4220 - Biostatistics
- PSY1030 - Introduction to Psychology
- PSY2130 - Life Span Devlopmnt Psychology
- SOC1010 - Intro to Sociology
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- EXPW1021 - Connections to EXPW
- EXPW1022 - Introduction to EXPW
- EXPW1150 - Care/Prevention-Athl Injuries
- EXPW2220 - Medical Terminology
- EXPW2430 - First Aid, Safety & CPR
- EXPW2900 - Structural Anatomy
- EXPW3032 - Exercise Prescrip/Fit-Wellness
- EXPW3310 - Professional Preparation
- EXPW3170 - Motor Learning
  OR EXPW3410 - Lifespan Motor Development
- EXPW4420 - Kinesiology
- EXPW4440 - Physiology of Exercise
- EXPW4520 - Adapted Phys Activity-Sport
  OR EXPW4760 - Functional Movement
- EXPW4730 - Assmnt & Eval in Exerc Sci
- EXPW4820 - Field Experience
- EXPW4900 - Research Methods/Exrc Sci
- ELECTIVE - Elective Credit
- PHED1002 - Physical Fitness Test

Directed Electives (8 hours) from: CHEM 3010, CHEM 3020, CHEM 3005, or any Upper Division Chemistry; BIOL 4040, BIOL 4060, BIOL 4150 or any Upper Division Biology; PHYS 2010, PHYS 2020.

General Elective - 1 credit

English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.

1. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
2. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Humanities and Cultural Expression (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Biology Minor

A minor in Biology is required for this concentration. Advisors will assist students with declaring the minor with the Registrar's Office.

Quantitative Reasoning and Analysis (3 cr.)

Earn at least 3 credits from the following:

- Quantitative Reasoning and Analysis (FFQR)

Financial or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Exercise Science, Pre-Physician Assistant Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative
A minor in Biology is required for this concentration. Advisors will assist students with declaring the minor with the Registrar's Office.

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- BIOL1113 - General Biology I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- EXPW1021 - Connections to EXPW
  OR
- equivalent
  (Generic)

Actual Credits 1

Requirement Select
- EXPW1022 - Introduction to EXPW

Actual Credits 2

Requirement Select
- HEC2020 - Nutrition

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- BIOL1123 - General Biology II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- EXPW1150 - Care/Prevention-Athl Injuries

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH3070 - Statistical Methods I
  OR
- BIOL4220 - Biostatistics

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	14

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- EXPW3310 - Professional Preparation

Actual Credits 1

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- BIOL3230 - Health Science Microbiology

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- EXPW2430 - First Aid, Safety & CPR

Actual Credits 2

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- EXPW3032 - Exercise Prescrip/Fit-Wellness

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- PSY2130 - Life Span Devlopmnt Psychology

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- BIOL2020 - Human Anatomy & Physiology II

Actual Credits 4

Requirement Select
- BIOL3810 - General Genetics

Actual Credits 4

Requirement Select
- EXPW2900 - Structural Anatomy

Actual Credits 3

Requirement Select
- EXPW4820 - Field Experience

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- Directed Elective (4 cr hr)
  (Generic)

Actual Credits 4

Requirement Select
- EXPW3170 - Motor Learning
  OR
- EXPW3410 - Lifespan Motor Development

Actual Credits 3

Requirement Select
- EXPW4420 - Kinesiology

Actual Credits 3

Requirement Select
- EXPW4520 - Adapted Phys Activity-Sport
  OR
- EXPW4760 - Functional Movement

Actual Credits 3

Requirement Select
- EXPW4730 - Assmnt & Eval in Exerc Sci

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- Directed Elective (4 cr hr)
  (Generic)

Actual Credits 4

Requirement Select
- Elective (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select
- EXPW4440 - Physiology of Exercise

Actual Credits 3

Requirement Select
- EXPW4900 - Research Methods/Exrc Sci

Actual Credits 3

Requirement Select
- EXPW2220 - Medical Terminology

Actual Credits 1

Requirement Select
- A minor in Biology is required for this concentration. Advisors will assist students with declaring the minor with the Registrar's Office.
  (Generic)

Actual Credits -

Requirement Select
- Directed Electives (8 hours) from: CHEM 3010, CHEM 3020, CHEM 3005, or any Upper Division Chemistry; BIOL 4040, BIOL 4060, BIOL 4150 or any Upper Division Biology; PHYS 2010, PHYS 2020.
  (Generic)

Actual Credits -

EXSC-PT - Exercise Science, Pre-Physical Therapy Concentration, B.S.

Program Overview

Program Long Title
Exercise Science, Pre-Physical Therapy Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Exercise Science, Pre-Physical Therapy Concentration, B.S. (120 hours)

Type
Completion Requirement

Exercise Science, Pre-Physical Therapy Concentration Course Requirements

Complete ALL of the following Courses:
- BIOL2010 - Human Anatomy & Physiology I
- BIOL2020 - Human Anatomy & Physiology II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- MATH1530 - Introductory Statistics
  OR MATH3070 - Statistical Methods I
  OR BIOL4220 - Biostatistics
- MATH1710 - Pre-Calculus Algebra
  OR MATH1720 - Pre-calculus Trigonometry
- PSY1030 - Introduction to Psychology
- SOC1010 - Intro to Sociology
- EXPW1021 - Connections to EXPW
- EXPW1022 - Introduction to EXPW
- EXPW1130 - Intro to Physical Therapy
- EXPW1150 - Care/Prevention-Athl Injuries
- EXPW2430 - First Aid, Safety & CPR
- EXPW3170 - Motor Learning
- EXPW2900 - Structural Anatomy
- EXPW4171 - Exercise & Sport Psychology
- EXPW3032 - Exercise Prescrip/Fit-Wellness
- EXPW4440 - Physiology of Exercise
- EXPW4820 - Field Experience
- EXPW4420 - Kinesiology
- EXPW3310 - Professional Preparation
- EXPW4520 - Adapted Phys Activity-Sport
- EXPW4730 - Assmnt & Eval in Exerc Sci
- EXPW3550 - Support/Serv:Prs w/ Phys Imprm
- EXPW4760 - Functional Movement
  OR EXPW4032 - Training for Performance
- EXPW4900 - Research Methods/Exrc Sci
- PHED1002 - Physical Fitness Test
- GEHUFA - Humanities/Fine Arts

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.

2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
3. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Directed Electives (30 cr.)

Directed Electives (30 hours required from approved list): BIOL 1113, BIOL 1123, BIOL 3140, BIOL 3230, CHEM 1110, CHEM 1120, HEC 2220, HIMT 1300, HIT 1010, PHYS 2010, PHYS 2020, PSY 2130, PSY 4160

Humanities and Cultural Expression (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Financial or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Exercise Science, Pre-Physical Therapy Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- EXSC/Pre-Physical Therapy - Directed Elective

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- EXPW1021 - Connections to EXPW
  OR
- equivalent
  (Generic)

Actual Credits 1

Requirement Select
- EXPW1022 - Introduction to EXPW
  OR
- equivalent
  (Generic)

Actual Credits 2

Requirement Select
- MATH1710 - Pre-Calculus Algebra
  OR
- MATH1720 - Pre-calculus Trigonometry

Actual Credits 3

Requirement Select
- SOC1010 - Intro to Sociology

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- EXPW1150 - Care/Prevention-Athl Injuries

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics
  OR
- MATH3070 - Statistical Methods I
  OR
- BIOL4220 - Biostatistics

Actual Credits 3

Requirement Select
- EXPW1130 - Intro to Physical Therapy

Actual Credits 1

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits

Sophomore Year	First Semester	14

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- EXPW2430 - First Aid, Safety & CPR

Actual Credits 2

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- EXPW3170 - Motor Learning

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- EXSC/Pre-Physical Therapy - Directed Elective

Actual Credits 7

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- EXSC/Pre-Physical Therapy - Directed Elective

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- EXSC/Pre-Physical Therapy - Directed Elective

Actual Credits 4

Requirement Select
- EXPW4171 - Exercise & Sport Psychology

Actual Credits 3

Requirement Select
- EXPW2900 - Structural Anatomy

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- EXSC/Pre-Physical Therapy - Directed Elective

Actual Credits 2

Year	Semester	Actual Credits
Junior Year	Second Semester	13

Requirement Select
- BIOL2020 - Human Anatomy & Physiology II

Actual Credits 4

Requirement Select
- EXPW3032 - Exercise Prescrip/Fit-Wellness

Actual Credits 3

Requirement Select
- EXPW4440 - Physiology of Exercise

Actual Credits 3

Requirement Select
- EXPW4820 - Field Experience

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- EXSC/Pre-Physical Therapy - Directed Elective

Actual Credits 5

Requirement Select
- EXPW3310 - Professional Preparation

Actual Credits 1

Requirement Select
- EXPW4520 - Adapted Phys Activity-Sport

Actual Credits 3

Requirement Select
- EXPW4730 - Assmnt & Eval in Exerc Sci

Actual Credits 3

Requirement Select
- EXPW4420 - Kinesiology

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select
- EXSC/Pre-Physical Therapy - Directed Elective

Actual Credits 5

Requirement Select
- EXPW3550 - Support/Serv:Prs w/ Phys Imprm

Actual Credits 3

Requirement Select
- EXPW4760 - Functional Movement
  OR
- EXPW4032 - Training for Performance

Actual Credits 3

Requirement Select
- EXPW4900 - Research Methods/Exrc Sci

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- Directed Electives: BIOL 1113, BIOL 1123, BIOL 3140, BIOL 3230, CHEM 1110, CHEM 1120, HEC 2220, HIT 1010, HIMT 1300, PHYS 2010, PHYS 2020, PSY 2130, PSY 4160
  (Generic)

Actual Credits -

EXSC-SA - Exercise Science, Sport Administration Concentration, B.S.

Program Overview

Program Long Title
Exercise Science, Sport Administration Concentration, B.S.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Requirements

Simple Requirements

Exercise Science, Sport Administration Concentration, B.S. (120 hours)

Type
Completion Requirement

Exercise Science, Sport Administration Concentration Course Requirements

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- EXPW1021 - Connections to EXPW
- EXPW1022 - Introduction to EXPW
- EXPW1150 - Care/Prevention-Athl Injuries
- EXPW2160 - Drug Use and Abuse
- EXPW2170 - Intro to Sport Mgmt
- EXPW2200 - Leadership Development in Exercise Science & Sport
- **OR** HIST4470 - Sports Studies
  OR HIST4471 - Sports Studies
  OR HIST4472 - Sports Studies
  OR HIST4473 - Sports Studies
  OR HIST4474 - Sports Studies
  OR HIST4475 - Sports Studies
  OR HIST4476 - Sports Studies
  OR HIST4477 - Sports Studies
  OR HIST4478 - Sports Studies
  OR HIST4479 - Sports Studies
- EXPW2430 - First Aid, Safety & CPR
- EXPW3170 - Motor Learning
  OR ELECTIVE - Elective Credit
- **OR** MKT3400 - Principles of Marketing
- EXPW3310 - Professional Preparation
- EXPW3410 - Lifespan Motor Development
  OR ELECTIVE - Elective Credit
- EXPW4171 - Exercise & Sport Psychology
- **OR** LAW2810 - Business Legal Env & Ethics
- **OR** FIN3210 - Principles/Managerial Fin
- EXPW4520 - Adapted Phys Activity-Sport
  OR ELECTIVE - Elective Credit
- EXPW4530 - Org & Admin/Interschool Athl
- EXPW4540 - Ethical Issues in Sport
- EXPW4550 - Sports Governance

- EXPW4560 - Facility Planning & Mgmt
- EXPW4570 - Fundraising/Revenue Generation in Sport
- EXPW4580 - Current Issues in Sports Mgmt
- EXPW4810 - Field Experience
- PHED1002 - Physical Fitness Test
- PSY1030 - Introduction to Psychology
- BMGT3510 - Mgmt/Organizational Behavior
  OR ELECTIVE - Elective Credit

General Electives (5 cr.)

Guided Electives (9 cr.) - Select nine credits from the approved list.

Guided Electives: EXPW 3032, EXPW 3070, EXPW 3091, EXPW 3092, EXPW 3180, EXPW 3200, EXPW 3300, EXPW3301, EXPW 3420, EXPW 3550, EXPW 4032, EXPW 4042, EXPW 4730, EXPW 4760, EXPW 4900, JOUR 2200, JOUR 2220, JOUR 3400, ACCT 3720, ECON 2010, ECON 2020

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
3. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Mathematics (3 cr.)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

General Education Humanities/Fine Arts (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundations Social/Behavioral Science (3 cr.)

Earn at least 3 credits from the following:

- Social and Behavioral Sciences (GEDS)

Scientific Reasoning (8 cr hrs)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Financial or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Exercise Science, Sport Administration Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- EXPW1021 - Connections to EXPW
  OR
- equivalent (1 cr hr)
  (Generic)

Actual Credits 1

Requirement Select
- EXPW1022 - Introduction to EXPW
  OR
- equivalent (2 cr hrs)
  (Generic)

Actual Credits 2

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- EXPW1150 - Care/Prevention-Athl Injuries

Actual Credits 3

Requirement Select
- EXPW2160 - Drug Use and Abuse

Actual Credits 2

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- EXPW2170 - Intro to Sport Mgmt

Actual Credits 3

Requirement Select
- EXPW2200 - Leadership Development in Exercise Science & Sport

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- EXSC/Sport Administration - Guided Electives

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- EXPW2430 - First Aid, Safety & CPR

Actual Credits 2

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- EXSC/Sport Administration - Guided Electives

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	14

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- Electives (5 cr.)
  (Generic)

Actual Credits 5

Requirement Select
- EXPW3170 - Motor Learning
  OR
- EXSC/Sport Administration - Guided Electives

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- EXSC/Sport Administration - Guided Electives

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior
  OR
- EXSC/Sport Administration - Guided Electives

Actual Credits 3

Requirement Select
- EXPW3310 - Professional Preparation

Actual Credits 1

Requirement Select
- EXPW3410 - Lifespan Motor Development
  OR
- EXSC/Sport Administration - Guided Electives

Actual Credits 3

Requirement Select
- FIN3210 - Principles/Managerial Fin
  OR
- EXPW4275 - Sport Finance

Actual Credits 3

Requirement Select
- LAW2810 - Business Legal Env & Ethics
  OR
- EXPW4235 - Sport Law

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing
  OR
- EXPW3235 - Sports Marketing

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- EXPW4171 - Exercise & Sport Psychology

Actual Credits 3

Requirement Select
- EXPW4540 - Ethical Issues in Sport

Actual Credits 3

Requirement Select
- EXPW4560 - Facility Planning & Mgmt

Actual Credits 3

Requirement Select
- EXPW4570 - Fundraising/Revenue Generation in Sport

Actual Credits 3

Requirement Select
- EXPW4580 - Current Issues in Sports Mgmt

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- EXPW4520 - Adapted Phys Activity-Sport
  OR
- EXSC/Sport Administration - Guided Electives

Actual Credits 3

Requirement Select
- EXPW4530 - Org & Admin/Interschool Athl

Actual Credits 3

Requirement Select
- EXPW4550 - Sports Governance

Actual Credits 3

Requirement Select
- EXPW4810 - Field Experience

Actual Credits 3

Requirement Select
- HIST4470 - Sports Studies
  OR
- HIST4471 - Sports Studies
  OR
- HIST4472 - Sports Studies
  OR
- HIST4473 - Sports Studies
  OR
- HIST4474 - Sports Studies
  OR
- HIST4475 - Sports Studies
  OR
- HIST4476 - Sports Studies
  OR
- HIST4477 - Sports Studies
  OR
- HIST4478 - Sports Studies
  OR
- HIST4479 - Sports Studies
  OR
- EXPW2235 - Chronicle of Sport

Actual Credits 3

Requirement Select
- Fitness test once per academic year while in this major. (Generic)

Actual Credits -

Requirement Select

- Guided Electives: EXPW 3032, EXPW 3070, EXPW 3091, EXPW 3092, EXPW 3180, EXPW 3200, EXPW 3300, EXPW 3301, EXPW 3420, EXPW 3550, EXPW 4032, EXPW 4042, EXPW 4730, EXPW 4760, EXPW 4900, JOUR 2220, JOUR 2200, JOUR 3400, ACCT 3720, ECON 2010, ECON 2020
  (Generic)

Actual Credits -

EXSC-SPTP - Exercise Science, Sport Performance Concentration, B.S.

Program Overview

Program Long Title

Exercise Science, Sport Performance Concentration, B.S.

College/School

Education and Human Sciences

Department(s)

Exercise Science

Requirements

Simple Requirements

Exercise Science, Sport Performance Concentration, B.S. (120 cr.)

Type
Completion Requirement

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- BIOL2010 - Human Anatomy & Physiology I
- BIOL2020 - Human Anatomy & Physiology II
- HEC1030 - Introduction to Nutrition (Inactive)
  OR HEC2020 - Nutrition
- PSY1030 - Introduction to Psychology
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- EXPW1021 - Connections to EXPW
- EXPW1140 - Intro to Strength/Conditioning
- EXPW1022 - Introduction to EXPW
- EXPW2250 - The Art of Coaching
- EXPW2200 - Leadership Development in Exercise Science & Sport
- EXPW2430 - First Aid, Safety & CPR
- EXPW2900 - Structural Anatomy
- EXPW3565 - Physical Activity/Sport Skills
- EXPW4440 - Physiology of Exercise
- HEC4940 - Nutrition, Fitness & Wellness (Inactive)
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.
- EXPW3170 - Motor Learning
- EXPW3420 - Organization & Oversight
- EXPW3032 - Exercise Prescrip/Fit-Wellness
- EXPW3410 - Lifespan Motor Development
- EXPW4420 - Kinesiology
- EXPW4760 - Functional Movement
- EXPW4032 - Training for Performance
- EXPW3310 - Professional Preparation
- EXPW4105 - Issues in Sport Performance
- EXPW4442 - Performance/Recovery in Sport
- EXPW4730 - Assmnt & Eval in Exerc Sci
- EXPW4995 - Sport Science and Performance
- EXPW4850 - Sport Performance Internship
  OR EXPW4855 - Sport Performance Internship
- EXPW4171 - Exercise & Sport Psychology
- PHED1002 - Physical Fitness Test

General Electives (6-10 cr.)

Social and Behavioral Sciences (3 cr.)

Earn at least 3 credits from the following:

- Social and Behavioral Sciences (GEDS)

Financial or Digital Literacy (3 cr.)`

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Humanities and Cultural Expression (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Quantitative Reasoning and Analysis (3 cr.)

Earn at least 3 credits from the following:

- Quantitative Reasoning and Analysis (FFQR)

Degree Map

Degree Map Name
Degree Plan - Exercise Science, Sport Performance Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- EXPW1021 - Connections to EXPW

Actual Credits 1

Requirement Select
- EXPW1140 - Intro to Strength/Conditioning

Actual Credits 1

Requirement Select
- EXPW1022 - Introduction to EXPW

Actual Credits 2

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16 - 15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- BIOL2020 - Human Anatomy & Physiology II

Actual Credits 4

Requirement Select
- HEC1030 - Introduction to Nutrition (Inactive)

  OR
- HEC2020 - Nutrition

Actual Credits 3 - 2

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- EXPW2250 - The Art of Coaching

Actual Credits 3

Requirement Select
- EXPW2900 - Structural Anatomy

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- EXPW2200 - Leadership Development in Exercise Science & Sport

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits

Sophomore Year	Second Semester	14

Requirement Select
- EXPW3565 - Physical Activity/Sport Skills

Actual Credits 3

Requirement Select
- EXPW2430 - First Aid, Safety & CPR

Actual Credits 2

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- EXPW4440 - Physiology of Exercise

Actual Credits 3

Requirement Select
- HEC4940 - Nutrition, Fitness & Wellness (Inactive)

Actual Credits 3

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- EXPW3170 - Motor Learning

Actual Credits 3

Requirement Select
- EXPW3420 - Organization & Oversight

Actual Credits 3

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- EXPW3032 - Exercise Prescrip/Fit-Wellness

Actual Credits 3

Requirement Select
- EXPW3410 - Lifespan Motor Development

Actual Credits 3

Requirement Select
- EXPW4420 - Kinesiology

Actual Credits 3

Requirement Select
- EXPW4760 - Functional Movement

Actual Credits 3

Requirement Select
- EXPW4032 - Training for Performance

Actual Credits 3

Requirement Select
- EXPW3310 - Professional Preparation

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	First Semester	15 - 19

Requirement Select
- EXPW4105 - Issues in Sport Performance

Actual Credits 3

Requirement Select
- EXPW4442 - Performance/Recovery in Sport

Actual Credits 3

Requirement Select
- EXPW4730 - Assmnt & Eval in Exerc Sci

Actual Credits 3

Requirement Select
- Electives (recommended EXPW3200, COMM2090, PHED1370, PHED1371, PHED1373) (Generic)

Actual Credits 6 - 10

Requirement Select
- PHED1002 - Physical Fitness Test

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Second Semester	15 - 12

Requirement Select

- EXPW4995 - Sport Science and Performance

Actual Credits 3

Requirement Select

- EXPW4850 - Sport Performance Internship
  OR
- EXPW4855 - Sport Performance Internship

Actual Credits 9 - 6

Requirement Select

- EXPW4171 - Exercise & Sport Psychology

Actual Credits 3

Requirement Select

- BIOL2010 & EXPW2900 are prerequisites for EXPW4420 & 4440.
  (Generic)

Actual Credits -

Requirement Select

- PSY 1030 is a prerequisite for EXPW4171.
  (Generic)

Actual Credits -

Requirement Select

- EXPW4760 requires a 'B' or better in EXPW3032 as a prerequisite.
  (Generic)

Actual Credits -

Requirement Select

- EXPW4442 requires a 'B' or better in EXPW4440 as a prerequisite.
  (Generic)

Actual Credits -

Requirement Select

- HEC1030 or HEC2020 is a prerequisite for HEC4940.
  (Generic)

Actual Credits -

Requirement Select

- EXPW4995 requires a 'B' or better in EXPW4730 as a prerequisite.
  (Generic)

Actual Credits -

HLTH-MIN - Health and Wellness Minor

Program Overview

Program Long Title

Health and Wellness Minor

College/School

Education and Human Sciences

Department(s)

Exercise Science

Requirements

Simple Requirements

Health and Wellness Minor

Type
Completion Requirement

Health and Wellness (HLTH) Minor

Students must complete 15 hours from the following list with at least 6 hours at the 3000 level or above:

Earn at least 15 credits from the following:

- EXPW2015 - Concepts of Health/Wellness
  OR EXPW2130 - Concepts-Comprehensive Health
- EXPW2150 - Human Sexuality
- EXPW2160 - Drug Use and Abuse
- EXPW2430 - First Aid, Safety & CPR
- EXPW2900 - Structural Anatomy
- EXPW3070 - Lifetime Wellness/Leisure Actv
- EXPW3500 - Phys Activity, Hlth/Sp Pop
- EXPW4032 - Training for Performance
- EXPW4042 - Health Promotion
- EXPW4290 - Accident Prevention
- HEC1030 - Introduction to Nutrition (Inactive)
  OR HEC2020 - Nutrition
- HEC3290 - Nutrition Through Life Cycle
- HEC4940 - Nutrition, Fitness & Wellness (Inactive)
- NURS3450 - Personal Wellness Management
- PHED1005 - Lifetime Fitness and Wellness

Courses

Course Information

Course Title
Connections to EXPW

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
1021

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
An introduction to the university as well as various career paths possible with a degree in Exercise Science. Students connect with one another, the exercise science faculty, campus, and community.

College/School
Education and Human Sciences

Course Information

Course Title
Introduction to EXPW

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
1022

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Students gain relevant information about the department, educational opportunities and career paths in exercise science.

College/School
Education and Human Sciences

Course Information

Course Title
Intro to Athletic Training

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
1110

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Exploration of athletic training as a profession. Career paths, job settings and educational requirements will be investigated.

College/School
Education and Human Sciences

Course Information

Course Title
Intro to Occupational Therapy

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
1120

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Fundamental concepts of occupational therapy (OT) are explored. Expect a broad overview of the profession while discussing current professional roles in various settings.

College/School
Education and Human Sciences

Course Information

Course Title
Intro to Physical Therapy

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
1130

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Fundamental concepts of Physical Therapy (PT). A broad overview and history while discussing current professional roles, current issues, trends in the field, and treatments.

College/School
Education and Human Sciences

Course Information

Course Title
Intro to Strength/Conditioning

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
1140

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Designed for students interested in pursing a career as a strength and conditioning coach, this course provides an overview of the educational process, testing requirements, necessary practical experience and more directly related to being a strength coach.

College/School
Education and Human Sciences

Course Information

Course Title
Care/Prevention-Athl Injuries

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
1150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to basic knowledge of prevention, recognition, management, and rehabilitation of common athletic injuries.

College/School
Education and Human Sciences

Course Information

Course Title
Orthopedic Assessment I

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2001

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Other Hours

Min:
0

Max:
1

Operator:
OR

Course Description
Prerequisites: Sophomore standing, EXPW 2900 with grade of C or better. Advanced study of the etiology, pathology, and clinical signs and symptoms of common injuries to the lower extremities and lumbar spine. Students in the pre-athletic training concentration must pass with a “B” or better to continue in the program.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Sophomore standing, EXPW 2900 with grade of C or better.

Note:
Note:

Students in the pre-athletic training concentration must pass with a “B” or better to continue in the program.

Course Information

Course Title
Orthopedic Assessment II

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2002

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Other Hours

Min:
0

Max:
1

Operator:
OR

Course Description
Prerequisite: Sophomore standing, EXPW 2900 with a grade of C or better. Advanced study of the etiology, pathology, and clinical signs and symptoms of common injuries to the upper extremities, cervical and thoracic spine, and abdomen. Students with the Pre-Athletic Training concentration must pass this class with a “B” or better to continue in the program.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Sophomore standing, EXPW 2900 with a grade of 'C' or better.

Note:
Students in the Pre-Athletic Training concentration must pass with a grade of 'B' or better to continue in the program.

Course Information

Course Title
Concepts of Health/Wellness

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2015

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Exploration of the impact of health and wellness as it affects personal behavior, social development, and quality of life for individuals, families and communities. Analysis of behavioral change theories regarding social context of individual human behavior and examination of current social and behavioral science research within the context of health and wellness.

College/School
Education and Human Sciences

Course Information

Course Title
Lifeguard Training

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2100

Credit Hours

Credit Hours:
2

Lab Hours

Min:
2

Course Description
Designed to prepare students to perform the duties and responsibilities of a lifeguard for swimming pools and at protected open water non-surf beaches. Satisfactory completion can lead to lifeguard certification.

College/School
Education and Human Sciences

Course Information

Course Title
Concepts-Comprehensive Health

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Designed to provide current information related to all areas of personal health. A survey of areas and aspects of health and wellness.

College/School
Education and Human Sciences

Course Information

Course Title
Human Sexuality

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A survey of the dynamics of human sexuality as well as identification and examination of basic issues in human sexuality as relating to the larger society.

College/School
Education and Human Sciences

Course Information

Course Title
Drug Use and Abuse

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2160

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
The study of legal and illegal drugs and their relationship to contemporary society.

College/School
Education and Human Sciences

Course Information

Course Title
Intro to Sport Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2170

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An overview of fundamental principles of management and administration of sport programs.

College/School
Education and Human Sciences

Leadership Development in Exercise Science & Sport

Course Information

Course Title
Ldrship Devlp in Ex Sci, Sport

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A combination of leadership theory and practical application, to equip students with knowledge and skills needed for leadership in team sports and exercise science.

College/School
Education and Human Sciences

Course Information

Course Title
Medical Terminology

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2220

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
This course aims to equip students with a foundational understanding of medical language, including word structures, common medical terms and their applications in health care settings. Pre-requisite: EXPW 2900 or approval of Instructor.

College/School
Education and Human Sciences

Syllabus
EX01-b Syllabus for 2220 Med Term.docx

Requisites and Restrictions

Prerequisite:
EXPW 2900 or approval of instructor.

Course Information

Course Title
Chronicle of Sport

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2235

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course gives historical facts and perspectives of how sport in America has evolved.

College/School
Education and Human Sciences

Course Information

Course Title
The Art of Coaching

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Science and psychology of implementing the art of coaching athletes, clients, and patients in strength and conditioning, personal training, athletic training and other health and wellness related careers. Focus on quality instruction, coaching and leadership through application of learned coaching skills and methods.

College/School
Education and Human Sciences

Course Information

Course Title
First Aid, Safety & CPR

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2430

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Practice and application of the most current standards and accepted principles of CPR, safety and first aid. Students have opportunity to obtain certification through the American Red Cross.

College/School
Education and Human Sciences

Course Information

Course Title
Safety & Accident Prevention

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2440

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Safety problems in the home, school, public places, highways, and the specific problems of industry along with an emphasis on proper attitudes toward safe driving and safety in general.

College/School
Education and Human Sciences

Course Information

Course Title
Lesson Planning 101

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2720

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
This course will provide pre-service teachers with tools and understanding necessary to write quality lesson plans.

College/School
Education and Human Sciences

Course Information

Course Title
Structural Anatomy

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
2900

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Muscular & skeletal systems, joints, planes, and lever systems as related to function of anatomy in movement. Application of anatomical knowledge, terminology and concepts to real-world scenarios and movement. Does not replace BIOL 2010 or BIOL 2350.

College/School
Education and Human Sciences

Course Information

Course Title
Therapeutic Rehab/Modalities

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3001

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: EXPW 2001 and EXPW 2002. Exploration of principles in planning and implementation of rehabilitation programs for injured athletes. Emphasis on development of comprehensive, individualized rehabilitation protocols using a combination of therapeutic modalities and exercises.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
EXPW 2001 and EXPW 2002.

Course Information

Course Title
Med Aspects/Athletic Training

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3006

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 2220. Advanced study of general medical conditions and disabilities, head and facial injuries, and internal injuries in athletes.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
HEC 2220

Course Information

Course Title
Clinical I

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3011

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Clinical experience designed to provide opportunities for students to evaluate specific clinical competencies. Opportunities to practice and observe athletic training skills in a clinical setting. Minimum of 120 clinical hours under the direct supervision of an accredited preceptor.

College/School
Education and Human Sciences

Course Information

Course Title
Edu Gymnastics,Dance,Fitness

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3012

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
This course provides experience for the candidate to become familiar with educational gymnastics, dance and fitness and how to teach each of these in elementary, middle and high school settings.

College/School
Education and Human Sciences

Course Information

Course Title
Exercise Prescrip/Fit-Wellness

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3032

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior or Senior standing. Exercise testing, decision-making and techniques to determine appropriate exercise programming for desired fitness goals. Field and lab assessments of health-related physical fitness and designing exercise programs to target specific outcomes in various populations included.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Junior or Senior Standing in EXPW.

Course Information

Course Title
Water Safety Inst Course

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3050

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Instruction in senior lifesaving; parts one and two of the instructor's training course in water safety.

College/School
Education and Human Sciences

Course Information

Course Title
Lifetime Wellness/Leisure Actv

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3070

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
This course is designed to help students identify and develop skills needed to be safe and successful in lifetime wellness and leisure activities. The goal is for students to find activities that they enjoy that will lead to a lifetime of personal physical fitness.

College/School
Education and Human Sciences

Course Information

Course Title
Coaching Individual Sports

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3091

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisite or corequisite: EXPW 3180. Study of philosophies, skills, knowledge, strategies, and leadership associated with coaching selected individual sports.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite or corequisite:
EXPW 3180.

Course Information

Course Title
Coaching Team Sports

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3092

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite or Corequisite: EXPW 3180. This course is designed to examine the theory and practice of coaching volleyball, basketball, baseball/softball and soccer.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite or corequisite:
EXPW 3180.

Course Information

Course Title
School Wellness Pedagogy/Pract

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3132

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
1

Repeatable for Credit:
No

Course Description
Prerequisite: EXPW 2015 or equivalent and Exercise Science Licensure major. Multiple opportunities to examine health/lifetime wellness curriculum design, gain familiarity with instructional methodology and design, and participate in supervised practicum in a secondary health/wellness classroom.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
EXPW 2015 or equivalent and Exercise Science Licensure major.

Course Information

Course Title
Motor Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3170

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The process of improving motor skills through practice, with long-lasting changes in the capability for responding. Through work in the classroom and lab-like experiences the processes and principles of motor learning will be examined.

College/School
Education and Human Sciences

Course Information

Course Title
Intro to Coaching

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3180

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Exposure to the application of theoretical aspects of coaching, including philosophy, teaching, training, management, ethics, gender, and culture.

College/School
Education and Human Sciences

Course Information

Course Title
Leadership Dev-Ex Sci/Sprt II

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Combining leadership theory with practical application, leadership is explored as an integral component of career and life, focusing on the value of influencing others and the importance of interpersonal skills and team dynamics.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
EXPW 2200.

Course Information

Course Title
Sports Marketing

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3235

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This is an introduction to the principles of marketing and how these principles can be applied to the sports industry.

College/School
Education and Human Sciences

Course Information

Course Title
Sports Officiating

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3300

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Detailed techniques and methods of sports officiating involving rule interpretation and ethical character.

College/School
Education and Human Sciences

Course Information

Course Title
Sports Officiating:Sp Sprts

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3301

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Rules, duties, responsibilities, signals, positioning, and philosophy of a sports official through classroom and practical experience for individual sports including tennis, baseball, and softball.

College/School
Education and Human Sciences

Course Information

Course Title
Professional Preparation

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3310

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Useful information about the graduate school application process and preparing for a professional job interview, including writing a winning resume and cover letter, professional philosophy, interviewing practice and follow-up procedures will be covered.

College/School
Education and Human Sciences

Mental Health & Wellness for College Students

Course Information

Course Title
Mental Hlth & Well for Col Stu

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3315

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
No

Course Description
This is a broad exploration of mental health and wellness, focusing on the factors that influence happiness, anxiety, stress, and overall well-being. Gain understanding of the connection between mental health and physical health. Learn practical strategies to manage stress, improve emotional regulation, and enhance mental clarity. Emphasis is placed on healthy coping mechanisms such as mindfulness, self-care, and resilience, while also addressing the importance of physical wellness through exercise, sleep, and nutrition.

College/School
Education and Human Sciences

Syllabus
EX01 - Memo - New Courses 225 (1) (1).docx

Course Information

Course Title
First Aid/CPR Inst Training

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3330

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Must have current American Red Cross basic level certification or equivalent. Instructor candidates learn to teach American Red Cross first-aid and CPR. Use of course materials, how to conduct training and evaluation of participant progress is examined.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Must have current American Red Cross basic level certification or equivalent.

Course Information

Course Title
Lifespan Motor Development

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to the developmental aspects of human motor behavior across the life span. The focus is characteristics of stages of motor development as well as issues related to physical growth and development.

College/School
Education and Human Sciences

Course Information

Course Title
Organization & Oversight

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: Exercise Science major with concentration in Sport Performance or permission of the instructor. Learn the principles and ACSM guidelines involved in the development, organization and administration of a sports and fitness facility.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Exercise Science major with concentration in Sport Performance or permission of the instructor.

Course Information

Course Title
Phys Activity, Hlth/Sp Pop

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior or Senior Exercise Science major or permission of instructor. Study of effects of physical activity and inactivity on pathophysiology of various health conditions across the lifespan. A wide range of health risks and conditions for different populations will be examined.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Junior or Senior Exercise Science major or permission of the instructor.

Course Information

Course Title
Support/Serv:Prs w/ Phys Imprm

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Survey of variety of assistive technology and devices, and educational and health related resources for persons with physical impairments. A variety of conditions and modifications will be explored.

College/School
Education and Human Sciences

Course Information

Course Title
Physical Activity/Sport Skills

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3565

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Multiple and varied experiences participating in physical activities and sports. skills for participation, rules, strategies, and general knowledge about a variety of physical activities and sports will be explored. Has a physical activity component. Licensure majors must pass with a grade of B or better.

College/School
Education and Human Sciences

Curriculum in Physical Education

Course Information

Course Title
Curriculum in Physical Edu

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3660

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite: Exercise Science Licensure candidate. Full admission to Teacher Education. Examination of curriculum development processes including planning, design, implementation and evaluation of curricula. Learning to align curricula with standards, to meet learning needs, instructional goals and assessment outcomes is required for completion.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Exercise Science Licensure candidate. Full admission to Teacher Education.

Course Information

Course Title
Instructional Strategies

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
3720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Exercise Science Licensure major, full admission to Teacher Education. Must have a grade of B or better. Examines evidence-based strategies for effective instruction in physical education grades K-12.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Exercise Science Licensure major. Full admission to Teacher Ed.

Note:
Must have a grade of 'B' or better.

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4001

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Senior standing, EXPW 4730. Develop knowledge and skills to aid in conducting and critically reviewing research. Opportunity to explore and evaluate CAATE accredited athletic training programs and prepare for the application and selection process is included. Pre-Athletic Training majors must pass with a grade of B or better.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Senior standing and EXPW 4730.

Course Information

Course Title
Clinical II

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4011

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Opportunities to practice and observe athletic training skills in a clinical setting. Must demonstrate proficiency in advanced clinical competencies and perform the skills learned in the previous semesters. Must complete 120 clinical hours under supervision of an approved preceptor.

College/School
Education and Human Sciences

Course Information

Course Title
Training for Performance

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4032

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Examine theory that dictates physical training for sport performance as well as practical application of physical training and evaluation. In-class evaluation, practical training, and prescription activities serve as a beginning preparation for the NSCA CSCS examination.

College/School
Education and Human Sciences

Course Information

Course Title
Health Promotion

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4042

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Senior status or permission of the instructor. Foundational history and philosophical guidelines related to various behavior change models, evaluation standards and assessment of health promotion programs.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Senior status or permission of the instructor.

Course Information

Course Title
Issues in Sport Performance

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4105

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: Major in Exercise Science with concentration in Sport Performance or permission of the instructor. An introduction to the critical questions that explore relationships between the performance coach, medical staff, sport coach, and athletes. Current sport-related controversies regarding coaching philosophies, values, and ethics are examined to enhance communication and decision making in sport and athletic performance settings.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Exercise Science major with concentration in Sport Performance or permission of instructor.

Course Information

Course Title
Tactical Populations

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Major in Exercise Science and Concentration in Sport Performance, senior standing and completion of EXPW 4730 with a grade of B or better. Examination of the demands and challenges of increasing human performance within the context of military, law enforcement, fire, rescue, and emergency medical personnel. Improved performance within various fields will be the basis of study.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Exercise Science major with concentration in Sport Performance or permission of the instructor; Senior standing; EXPW 4730 with a grade of 'B' or better.

Course Information

Course Title
Exercise & Sport Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4171

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior or Senior Standing in EXPW and PSY 1030 or permission of instructor. An introduction to exercise and sport psychology, history, theory, and psychological techniques that hinder or enhance exercise, rehabilitation, and sport performance.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Junior or Senior Standing in EXPW and PSY 1030 or permission of instructor.

Course Information

Course Title
Sport Law

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4235

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course provides an overview of the business and legal issues within both professional and amateur sports.

College/School
Education and Human Sciences

Course Information

Course Title
Sport Finance

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4275

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An examination of principles of finance as applied to budgeting, operations, and business decisions in recreation and sport organizations.

College/School
Education and Human Sciences

Course Information

Course Title
Accident Prevention

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4290

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Emphasis on proper attitudes toward safe driving and safety in general.

College/School
Education and Human Sciences

Course Information

Course Title
Basic Drive/Traffic Safety Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4300

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Actual experiences in simulation and behind-the-wheel driver education.

College/School
Education and Human Sciences

Course Information

Course Title
Adv Drive & Traffic Safety Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4310

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Current materials and administration of simulation and behind the wheel driver education programs.

College/School
Education and Human Sciences

Course Information

Course Title
Kinesiology

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: EXPW 2900. Advanced study of the anatomy of the muscular, skeletal, and articular systems, and basic biomechanics and applications related to general movement and training and performance of athletes.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
EXPW 2900.

Course Information

Course Title
Physiology of Exercise

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4440

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: BIOL 2350 or BIOL 2010 and EXPW 2900. Examination of the physiological effects of exercise, sports, and other stresses on the various systems of the human body.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
BIOL 2350 or BIOL 2010 and EXPW 2900.

Course Information

Course Title
Performance/Recovery in Sport

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4442

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prereq: EXPW 4440 with a grade of B or better. Study of the immediate and long-term effects of physical activity on the acute and chronic effects of physical activity on body systems with regard to the neuromuscular, energy, respiratory and cardiovascular systems with reference to exercise evaluation and prescription.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
EXPW 4440 with grade of B or better.

Course Information

Course Title
Adapted Phys Activity-Sport

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4520

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Developing knowledge of current trends and concepts in adapted physical education and sport as well as examining various services, programs, and requirements for individuals with disabilities. Design and implementation of adapted physical activity & sport programs to meet unique needs of individuals will also be required.

College/School
Education and Human Sciences

Course Information

Course Title
Org & Admin/Interschool Athl

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is a study of issues faced by administrators, principals, athletic directors and coaches.

College/School
Education and Human Sciences

Course Information

Course Title
Ethical Issues in Sport

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4540

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior or Senior standing or permission of the instructor. Major moral/ethical issues within sports will be researched and discussed. Ethical decision-making process through opportunities for critical analysis drawing upon philosophical values, self-evaluating, examining, and developing a philosophy, and moral reasoning skills included.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Junior or Senior standing or permission of the instructor.

Course Information

Course Title
Sports Governance

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior or Senior standing or permission of the instructor. Focus on the growing problems associated with sports litigation. Amateur and professional aspects of sports are covered from four major perspectives: (1) judicial review of athletic associations; (2) eligibility rules and disciplinary measures; (3) equal opportunity provisions; and (4) tort liabilities.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Junior or Senior standing or permission of the instructor.

Course Information

Course Title
Facility Planning & Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4560

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior or Senior standing or permission of the instructor. Overview of elements involved in sport event management, including planning, organizing, marketing, and conducting a mock event.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Junior or Senior standing or permission of the instructor.

Fundraising/Revenue Generation in Sport

Course Information

Course Title
Fndrsng/Rev Gen in Sport

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4570

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Theoretical and practical applications of fundraising and generating revenue in the sports industry. The focus will be geared toward successful fundraising in sport programs at the educational, commercial, and professional levels..

College/School
Education and Human Sciences

Course Information

Course Title
Current Issues in Sports Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4580

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The content of this course will vary according to current research, topics and publications in areas of Sport Administration and Sport Management. Students will be delving into contemporary issues being studied and presented in peer reviewed and professional literature in order to gain relevant understanding of happenings in the industry as they arise.

College/School
Education and Human Sciences

Course Information

Course Title
Meth of Tchng Secondary PE

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4712

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission to teacher education, EXPW 2720, EXPW 3720, and EXPW 3565 with a grade of B or better in each. Corequisite: EXPW 4751. Opportunity to examine and develop instructional methods related to planning, teaching, and analyzing skills appropriate for secondary physical education. Applied learning theory and teaching methodology will be examined. Must have grade of B or better to progress to Residency.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to Teacher Education, EXPW 2720, EXPW 3720 and EXPW 3565 with a grade of 'B' or better.

Corequisite:
EXPW 4751.

Note:
Must have a grade of 'B' or better in EXPW 4712 to progress to Residency.

Course Information

Course Title
Meth of Tchng Elem PE

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4722

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full admission into teacher education, EXPW 2720, EXPW 3720, and EXPW 3565 with grade of “B” or better. Corequisite: EXPW 4752. Important and relevant knowledge and experience necessary to teach elementary physical education. A variety of instructional methods for teaching motor skills and movement concepts are included. The successful candidate will have a grade of B or better to progress to Residency.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to Teacher Education, EXPW 2720, EXPW 3720 and EXPW 3565 with a grade of 'B' or better.

Corequisite:
EXPW 4752

Note:
The successful candidate will have a grade of 'B' or better to progress to Residency.

Course Information

Course Title
Assmnt & Eval in Exerc Sci

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4730

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Select/construct, administer, score, and evaluate tests specific to human movement and performance. Standardized tests will be examined, and the uses and development of authentic tests will be explored.

College/School
Education and Human Sciences

Course Information

Course Title
Assessment in PE Classroom

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4731

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to Teacher Education. Multiple opportunities to construct and administer various assessment measures and to interpret data from assessing student performance and learning in physical education. Use of rubrics, administering standardized fitness tests, administering various skills tests, and analyzing the results is included.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Course Information

Course Title
Secondary PE Practicum

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4751

Credit Hours

Credit Hours:
2

Lab Hours

Min:
4

Course Description
Prerequisite: Full admission to teacher education, EXPW 2720, EXPW 3720, EXPW 3565 with grade of "B" or better. Co-requisite: EXPW 4712 - Opportunity to observe, assist and teach in the secondary physical education setting. The successful candidate will have a grade of B or better to progress to Residency.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to Teacher Education, EXPW 2720, EXPW 3720 and EXPW 3565 with a grade of 'B' or better.

Corequisite:
EXPW 4712.

Note:
The successful candidate will have a grade of 'B' or better to progress to Residency.

Course Information

Course Title
Elementary PE Practicum

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4752

Credit Hours

Credit Hours:
2

Lab Hours

Min:
4

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to teacher education, Grade of “B” or better in EXPW 2720, EXPW 3720, EXPW 3565. Co-requisite: EXPW 4722 - Methods of Teaching Elementary Physical Education. The teacher candidate will observe, assist and teach in the elementary physical education setting. The successful candidate will have a grade of "B" or better to progress to Residency.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to Teacher Education, Grade of "B" or better in EXPW 2720, EXPW 3720 and EXPW 3565.

Corequisite:
EXPW 4722.

Note:
The successful candidate will have a grade of 'B' or better to progress to Residency.

Course Information

Course Title
Functional Movement

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4760

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: EXPW 3032 with a grade of B or better or permission of the instructor. This course is designed to provide understanding of the importance of functional movements in life. Functional movements mimic motor recruitment patterns that are found in everyday life. Students will learn that functional movements are mechanically sound, can help alleviate injury, and elicit a high neuroendocrine response.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
EXPW 3032 with a grade of B or better or permission of instructor.

Course Information

Course Title
Physical Education I

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4770

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Methods of teaching physical education to young children for those who are not pursuing a Tennessee teaching license. Pedagogical content for elementary physical education is covered.

College/School
Education and Human Sciences

Course Information

Course Title
Physical Education II

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4771

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Methods of teaching physical education to middle and high school students for those who are not pursing a Tennessee teaching license. Pedagogical content for grades 5-12 is covered.

College/School
Education and Human Sciences

Course Information

Course Title
Field Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4810

Credit Hours

Credit Hours:
1

Credit Hours:
4

Lab Hours

Min:
2

Max:
8

Course Description
Prerequisite: Successful completion of 24 hours minimum in concentration. One to four credit hours may be earned. Participation in on-the-job experiences will be provided in a wide range of hosting agencies, institutions, and clinics. Requirements for course completion will vary depending on the number of credit hours to be earned.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Successful completion of 24 hours minimum in concentration.

Course Information

Course Title
Field Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4820

Credit Hours

Credit Hours:
1

Credit Hours:
4

Lab Hours

Min:
2

Max:
8

Course Description
Prerequisite: Successful completion of 24 hours minimum in concentration. One to four credit hours may be earned. Participation in on-the-job experiences will be provided in a wide range of hosting agencies, institutions, and clinics. Requirements for course completion will vary depending on the number of credit hours to be earned

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Successful completion of 24 hours minimum in concentration.

Course Information

Course Title
Field Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4830

Credit Hours

Credit Hours:
1

Credit Hours:
4

Lab Hours

Min:
2

Max:
8

Course Description
Prerequisite: Successful completion of 24 hours minimum in concentration. One to four credit hours may be earned. Participation in on-the-job experiences will be provided in a wide range of hosting agencies, institutions, and clinics. Requirements for course completion will vary depending on the number of credit hours to be earned.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Successful completion of 24 hours minimum in concentration.

Course Information

Course Title
Phys Educ Field Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4845

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite: Exercise Science Licensure major, Full admission to Teacher Education. Candidates learn from seasoned physical education professionals in a supervised observation experience.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Exercise Science Licensure major. Full admission to Teacher Education.

Course Information

Course Title
Sport Performance Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4850

Credit Hours

Credit Hours:
6

Other Hours

Min:
6

Course Description
Prerequisite: Senior status. Completion of 300 hours is required in an approved sport performance setting. Regular reporting required.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Senior status.

Course Information

Course Title
Sport Performance Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4855

Credit Hours

Credit Hours:
9

Other Hours

Min:
9

Course Description
Prerequisite: Senior status. Completion of 450 hours is required in an approved sport performance setting. Regular reporting required.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Senior status.

Course Information

Course Title
Residency I

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4871

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: Physical Education licensure major, acceptance into Teacher Education and completion of EXPW 4712 and EXPW 4722 with a grade of B or higher. Corequisite: EXPW 4874. This course is a supervised authentic teaching experience. Candidates are assigned placement in a school where they spend 12 hours per week for the duration of the semester job shadowing, preparing and teaching. There are multiple evaluations by a university supervisor during this residency experience. Individual guidance and assistance is given to each candidate during Residency I in preparation for success in Residency II. A grade of B is required to meet degree requirements.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Physical Education licensure major, acceptance into Upper Division Teacher Education and completion of EXPW 4712 and EXPW 4722 with a grade of B or higher.

Corequisite:
EXPW 4874.

Course Information

Course Title
Professional Seminar I

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4874

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite: Full admission to teacher education, Grade of "B" or better in EXPW 4712, EXPW 4722, EXPW 4751 and EXPW 4752. Problem-based learning for teacher candidates to prepare for Residency.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Full admission to the teacher education program; Grade of B or better in EXPW 4712, EXPW 4722, EXPW 4751 and EXPW 4752

Course Information

Course Title
Residency II

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4881

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Course Description
Prerequisite: Physical education licensure major, acceptance into Teacher Education, completion of EXPW 4871 and EXPW 4873 with a grade of B or higher. Corequisite: EXPW 4882. This is the final semester of Residency which is a full-time, supervised teaching experience where the candidate teaches physical education at either the elementary, middle or high school level. The candidate must complete and submit the EdTPA assessment during this course, and score mimimum or higher for program completion, graduation and gaining a Tennessee teaching license. For cut scores and timelines see Office of Teacher Education. (Spring only).

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Physical education licensure major, acceptance into Upper Division Teacher Education and completion of EXPW 4871 and with EXPW 4874 with a grade of B or higher.

Corequisite:
EXPW 4882.

Course Information

Course Title
Professional Seminar II

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4882

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
No

Course Description
Corequisite: EXPW 4883. Seminar on issues related to the interrelationships among school, culture and society; a historical, philosophical and sociological analysis.

College/School
Education and Human Sciences

Requisites and Restrictions

Corequisite:
EXPW 4883

Course Information

Course Title
Residency

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4883

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Repeatable for Credit:
No

Course Description
Prerequisites: Teacher licensure major, accepted into Teacher Education, EXPW 4722, EXPW 4752, EXPW 4712, EXPW 4751, and EXPW 4874. Co-requisite: EXPW 4882. A culminating residency experience in physical education teacher preparation. Candidates demonstrate competence in planning, instruction, assessment, classroom management, and professional practice in a supervised physical education setting.

College/School
Education and Human Sciences

Requisites and Restrictions

Corequisite:
EXPW 4882

Course Information

Course Title
Research Methods/Exrc Sci

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4900

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Senior standing and completion of EXPW 4730. This undergraduate course provides a comprehensive introduction to research proposal writing, research methodologies, and foundational research theories and protocols. Students in this course learn about the cyclical nature of applied research and the process of research writing.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Senior Standing and completion of EXPW 4730.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4920

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
This is an advanced course covering current topics in exercise science, sport, teaching, wellness, or related topics. May be taken more than once up to 6 credits, as topics change.

College/School
Education and Human Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4990

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Course Description
This course will concentrate on a special topic in the exercise science field. Students will work toward understanding by means set forth by the course instructor.

College/School
Education and Human Sciences

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4991

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Special study of an approved topic within the Exercise Science field under the direct supervision of a member of the Exercise Science faculty. Up to six hours may be taken for Upper division credit to fulfill major or minor requirements. This course will concentrate on a special topic in the exercise science filed. Students will work toward understanding by means set forth by the course instructor.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4992

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Special study of an approved topic within the Exercise Science field under the direct supervision of a member of the Exercise Science faculty. Up to six hours may be taken for Upper division credit to fulfill major or minor requirements. This course will concentrate on a special topic in the exercise science filed. Students will work toward understanding by means set forth by the course instructor.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Sport Science and Performance

Academic Level (Course Level)
Undergraduate

Course Subject Code
EXPW

Course Number
4995

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: Major in Exercise Science and Concentration in Sport Performance, senior standing, EXPW 4730 with grade of 'B' or better. Methods of research and practice related to sport science and sport performance including review of pertinent primary literature in the field.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Exercise Science major with a concentration in Sport Performance, Senior standing, EXPW 4730 with a grade of 'B' or better.

Course Information

Course Title
Conditioning & Agility

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
0900

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
0

Max:
1

Course Description
This course is designed for people interested in learning the importance of athletic conditioning and agility. Focus is on improving cardiovascular health, coordination, and explosive skills involved in athletics, every day activity, and overall health.

College/School
Education and Human Sciences

Course Information

Course Title
Modified Seasonal Sports

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1000

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Designed for students to learn and understand modifications that are available for multiple sporting activities. Focus is on modification of equipment and designing rules and regulations that meet the needs of individuals with physical or mental disabilities.

College/School
Education and Human Sciences

Course Information

Course Title
Physical Fitness Test

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1002

Credit Hours

Credit Hours:
0

Other Hours

Min:
0

Repeatable for Credit:
No

Number Of Repeats:
5

Course Description
Exercise Science majors are required to complete the physical fitness test once per academic year. Six aspects of physical and health related fitness are assessed (cardiovascular endurance, muscular power, muscular strength, muscular endurance, flexibility and body composition). This course does not affect GPA but is linked to graduation.

College/School
Education and Human Sciences

Course Information

Course Title
Lifetime Fitness and Wellness

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1005

Credit Hours

Credit Hours:
2

Lab Hours

Min:
4

Repeatable for Credit:
No

Course Description
Designed to explore and apply principles of lifetime physical fitness. This course also covers the impact of nutrition and disease prevention as related to optimal individual wellness.

College/School
Education and Human Sciences

Course Information

Course Title
Tennis

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1010

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed for students to learn how to play the game of tennis. Basic strokes of tennis will be covered, including forehand, backhand, and the serve. Court dimensions and markings as well as singles and doubles rules of game play will be included. Upon completion of this class, students should feel confident in their skills to participate in recreational tennis.

College/School
Education and Human Sciences

Course Information

Course Title
Beginning Yoga

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1015

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course introduces beginners to the basic practices of yoga, including foundational postures, breathing techniques, and relaxation. Emphasis is placed on safe movement, body awareness, and stress reduction. No previous yoga experience is required. Students should plan to have their own yoga mat.

College/School
Education and Human Sciences

Course Information

Course Title
Swimming

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1020

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course introduces students to fundamental swimming skills with an emphasis on water safety, stroke development, and cardiovascular fitness. Instruction includes basic aquatic skills, breathing techniques, floating, and introductory stroke mechanics. The course promotes confidence in the water, physical conditioning, and lifelong participation in swimming. No prior swimming experience is required.

College/School
Education and Human Sciences

Course Information

Course Title
Intermediate Swimming

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1021

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is for students with moderate to advanced swimming skills. Advanced swim strokes will be taught and students will participate in endurance swimming.

College/School
Education and Human Sciences

Course Information

Course Title
Survival Swimming

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1022

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course focuses on essential survival swimming and water safety skills designed to prepare students for emergency aquatic situations. Instruction emphasizes self-rescue techniques, floating and treading water, controlled breathing, basic lifesaving movements, safe entries and exits, and survival strategies in open-water and pool environments. The course promotes confidence, decision-making, and physical conditioning while reinforcing principles of personal safety and risk management. No prior swimming experience is required.

College/School
Education and Human Sciences

Course Information

Course Title
Advanced Yoga

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1025

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed for students who have experience practicing yoga. More advanced yoga poses and controlled breathing techniques are included to calm the mind and strengthen the body. Students will need to have their own yoga mat.

College/School
Education and Human Sciences

Course Information

Course Title
Bowling

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1030

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed for students who have no prior knowledge of bowling to gain the necessary skills needed to successfully participate in bowling. Students will learn proper techniques, bowling etiquettes and score keeping. After completing this course students should have a clear understanding of bowling.

College/School
Education and Human Sciences

Course Information

Course Title
Advanced Bowling

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1031

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed for students who have a basic knowledge of bowling and builds on the skills learned in PHED 1030. Advanced bowling includes a brief review of proper form, different techniques and etiquette. Students will become competent in these skills in class and outside of the classroom.

College/School
Education and Human Sciences

Course Information

Course Title
Archery

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1040

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed for people looking for a place to learn about and potentially begin the hobby of archery. This is an off-campus course, which focuses on the history, safety, variations of bows, variations of arrows, and skills associated with beginning archery.

College/School
Education and Human Sciences

Course Information

Course Title
Pickleball

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1035

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course introduces students to the fundamental skills, rules, and strategies of pickleball. Emphasis is placed on proper technique, court positioning, scoring, and game play. Students will learn rules, etiquette, and safety practices while developing hand-eye coordination, agility, and cardiovascular fitness. The course promotes lifelong participation in pickleball as a recreational sport. No prior pickleball experience is required.

College/School
Education and Human Sciences

Course Information

Course Title
Basketball for Women

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1050

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course provides instruction in the fundamental skills, rules, and strategies of basketball in a supportive learning environment for women. Emphasis is placed on skill development including dribbling, passing, shooting, defense, and team play. Instruction also includes rules, safety practices, and sportsmanship. The course promotes physical fitness, confidence, teamwork, and lifelong participation in basketball. No prior basketball experience is required.

College/School
Education and Human Sciences

Course Information

Course Title
Ninja Training

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1061

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Designed for students seeking an exciting and challenging fitness experience, this course blends functional training with obstacle-based movement inspired by ninja athletics. Students will develop strength, speed, agility, balance, and mental toughness through hands-on training sessions and progressive challenges. The course emphasizes creativity in movement, perseverance, and safe training practices while fostering teamwork and confidence. No prior ninja experience required.

College/School
Education and Human Sciences

Course Information

Course Title
Cardio Conditioning

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1062

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Various methods of cardiorespiratory conditioning will be explored, including, but not limited to running, cycling and swimming. Topics also covered including proper warm up and cool down, nutritional needs, individualized workout program design and techniques for success.

College/School
Education and Human Sciences

Course Information

Course Title
Recreational Games

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1065

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
A variety of games people play for recreation and/or leisure will be taught and played in this course, including but not limited to Spikeball, table tennis, Speedminton and more.

College/School
Education and Human Sciences

Course Information

Course Title
Volleyball

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1070

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course introduces students to the fundamental skills, rules, and strategies of volleyball. Emphasis is placed on skill development including serving, passing, setting, attacking, and defensive play. Instruction also covers rules, safety practices, teamwork, and sportsmanship. The course promotes physical fitness, coordination, and lifelong participation in volleyball. No prior volleyball experience is required.

College/School
Education and Human Sciences

Course Information

Course Title
Raquetball and Handball

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1080

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed to provide students with the knowledge and skill development necessary to be successful in playing racquetball and/or handball. Offensive and defensive strategies and scoring are also addressed.

College/School
Education and Human Sciences

Course Information

Course Title
Softball

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1090

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed to help students learn to play the game of softball using proper skills, strategies, and scoring. Students will become familiar with throwing, catching, and hitting in addition to rules and terminology. By the end of the semester students should have a basic understanding of the game of softball and feel confident in recreational game play.

College/School
Education and Human Sciences

Course Information

Course Title
Golf

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1100

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course introduces students to the fundamental skills, rules, and etiquette of golf. Emphasis is placed on basic swing mechanics, putting, chipping, pitching, and course management. Instruction includes proper equipment use, safety practices, scoring procedures, and sportsmanship. The course promotes physical fitness, skill development, and lifelong participation in golf. No prior golf experience is required.

College/School
Education and Human Sciences

Course Information

Course Title
Advanced Golf

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1101

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course builds upon the fundamental skills and knowledge developed in PHED 1100 and is designed for students seeking advanced instruction in golf. Emphasis is placed on refining swing mechanics, improving short-game performance, developing course management strategies, and applying advanced rules and etiquette. Students will engage in structured practice and on-course play to enhance consistency, decision-making, and overall performance.

College/School
Education and Human Sciences

Course Information

Course Title
Badminton

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1110

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed to give students basic information about the game/sport of badminton. Skill development, basic knowledge, rules and strategies of play for singles and doubles play are included in the course. Strokes and scoring are major components of this course.

College/School
Education and Human Sciences

Course Information

Course Title
Ballroom Dance

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1120

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Ballroom dance class is designed to help students learn basic to advanced ballroom dance steps, including but not limited to Foxtrot, Cha Cha, Rumba, Waltz and Tango. This class is appropriate for all level of ballroom dancers. Students enjoy a culminating BALL at the end of each semester.

College/School
Education and Human Sciences

Course Information

Course Title
Ballroom Dance II

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1121

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Designed to build on skill and steps learned in the ballroom dance class, this course will focus on method, timing and finesse of basic ballroom dances as well as introduce more advanced ballroom dance steps.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
PHED 1120.

Course Information

Course Title
Survey of Team Sports

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1135

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
A variety of team sports will be taught and played including, but not limited to volleyball, floor hockey, soccer and flag football.

College/School
Education and Human Sciences

Course Information

Course Title
Survey of Ind/Dual Sports

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1136

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
A variety of individual/dual spots will be taught and played including, but not limited to bowling, disc golf, tennis and golf.

College/School
Education and Human Sciences

Course Information

Course Title
Riflery

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1150

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed for people interested in the hobby of riflery. This course is based on recreational riflery, and covers topics such as; safety, rifle uses, recreational riflery, ammunition, sights, reloading, and competitive riflery rules/ regulations.

College/School
Education and Human Sciences

Course Information

Course Title
Scuba and Skin Diving

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1160

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed for students who want to learn to scuba/skin dive. Students spend time in the classroom and in the pool checking off on skills and practice diving before going out for a ‘check off’ dive. Students can become certified divers in this class.

College/School
Education and Human Sciences

Course Information

Course Title
Kempo Karate

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1170

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed for students who are interested in karate with little or no background in martial arts. Beginners are encouraged to sign up for this course and start training in martial arts.

College/School
Education and Human Sciences

Course Information

Course Title
Kempojutsu

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1171

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
The “Way of the Fist Methods” is the base martial arts of several systems taught today. This system is oriented toward those who would like an in-depth study of “Close Quarters Defensive Tactics”. The program emphasizes practical martial arts methods-no hold high kicks and no forms to learn.

College/School
Education and Human Sciences

Course Information

Course Title
Tai Chi/Qigong

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1172

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Tai Chi is an ancient Chinese form of “Moving Meditation” and relaxation. Its movements achieve harmony and balance between the mind and body. The movements are designed to help you feel relaxed, yet alive and energized. Qigong is also known as “Energy Exercise”. The practice of Qigong is done in place and relates more toward internal energy and health.

College/School
Education and Human Sciences

Samurai Sword-iaijutsu/kenjutsu

Course Information

Course Title
Samurai Sword

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1173

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
The Samurai sword is the most notable weapon of the Japanese samurai warriors. Iaijutsu is the drawing of the sword. Kenjutsu is the collection of followon techniques after the draw. The student will learn numerous fighting skills of the samurai warriors. Classes will be taught using a bokken (wooden sword).

College/School
Education and Human Sciences

Course Information

Course Title
Self Defense for Women

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1180

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
The “Way of the Fist Methods” is the base martial arts of several systems taught today. This system is oriented toward those who would like an in-depth study of “Close Quarters Defensive Tactics”. The program emphasizes practical martial arts methods-no hold high kicks and no forms to learn. Techniques are tailored to meet each individual’s needs. Instruction is conducted in a friendly, self-paced learning environment. Unusual physical ability and flexibility are not required for the program.

College/School
Education and Human Sciences

Course Information

Course Title
Water Aerobics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1190

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This class is designed to use the natural resistance of water against your body to provide a wide variety of conditioning activities: including but not limited to swimming, stretching, yoga, running, water weight exercises, and more. The purpose is to provide students with water aerobic exercises that will help reduce unnecessary stress on joints.

College/School
Education and Human Sciences

Course Information

Course Title
Beginning Foil Fencing

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1200

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is for students who are interested in learning about foil fencing.

College/School
Education and Human Sciences

Course Information

Course Title
Active Lifestyle and Health

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1220

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed for students to have multiple opportunities to participate in a variety of sports and physical activities in pursuit of a healthy lifestyle. Health topics including but not limited to physical fitness and nutrition will be covered.

College/School
Education and Human Sciences

Course Information

Course Title
Fitness Walking

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1221

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course introduces students to fitness walking as a safe and effective form of physical activity. Emphasis is placed on proper walking technique, posture, pacing, and goal setting to improve cardiovascular fitness. The course promotes lifelong physical activity, wellness, and healthy lifestyle habits.

College/School
Education and Human Sciences

Course Information

Course Title
Map Reading/Orienteering

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1230

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is for students who are interested in learning about navigating by map reading and orienteering. There will be an equal amount of classroom work and hands on experience.

College/School
Education and Human Sciences

Course Information

Course Title
Soccer

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1240

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course introduces students to the fundamental skills, rules, and strategies of soccer. Emphasis is placed on skill development including dribbling, passing, shooting, ball control, and defensive play. Instruction also includes rules, safety practices, teamwork, and sportsmanship. The course promotes cardiovascular fitness, coordination, and lifelong participation in soccer. No prior soccer experience is required.

College/School
Education and Human Sciences

Course Information

Course Title
Beginning West African Dance

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1250

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course provides students with the history and basic principles of West African Dance. Through brief lecture, active participation, and group exercises, students will gain an understanding of the West African Culture and its dance origin.

College/School
Education and Human Sciences

Course Information

Course Title
Advanced West African Dance

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1260

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course provides students with an in-depth study of West African Culture and advanced technical dance routines and implications.

College/School
Education and Human Sciences

Course Information

Course Title
Kickboxing

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1265

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Thai boxing or Muay Thai is a form of Martial Arts from Thailand. It is known as the "art of eight limbs." This course is designed to introduce Thai boxing at basic skill levels. The class will be conducted in a friendly, self-paced manner. Protective gear will be required for safety as students learn basic punches, elbow strikes, knee strikes and kicking.

College/School
Education and Human Sciences

Course Information

Course Title
Disc Golf

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1275

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Disc golf has become a popular outdoor recreational activity all over the nation. This course is designed to provide basic instruction in various throws including the backhand throw, forehand drive, and the backhand roller. Students will learn about the drive, approach and putt as well as rules of game play and keeping score.

College/School
Education and Human Sciences

Course Information

Course Title
Kayaking

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1280

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed for the beginner kayaker. Fundamental skills and techniques will be discovered and practiced as well as rules and etiquette on the water and general safety. Once students have the knowledge and basic skills necessary to stay afloat, there will be multiple opportunities to go kayaking.

College/School
Education and Human Sciences

Course Information

Course Title
Basketball for Men

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1290

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course introduces the fundamental skills of basketball. Emphasis is placed on skill development, rules and fair play. Dribbling, passing, shooting and offensive and defensive strategies are among skills that will be focused on throughout the duration of the class. The main goal of the class is to strive for improvement in every aspect of the game of basketball.

College/School
Education and Human Sciences

Course Information

Course Title
Slimnastics and Aerobics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1360

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Course Description
This class is designed to provide multiple and diverse opportunities for the student to exercise/workout in many different ways: including but not limited to yoga, circuit training, cross fit, exercise videos and more. The purpose is to provide many avenues of exercise so students might find something they enjoy and that fits into their ongoing exercise routine.

College/School
Education and Human Sciences

Course Information

Course Title
Weight Training & Phys Fitness

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1370

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course offers training, instruction and practice in proper techniques of the development of muscular strength, endurance, and flexibility. Emphasis is placed on the application of scientific principles and methods used to build, improved and maintain proper muscular fitness. Body composition and nutrition for health and fitness are also discussed. After taking this course students should be able to apply common knowledge into individual workout plans.

College/School
Education and Human Sciences

Advanced Weight Training & Physical Fitness

Course Information

Course Title
Adv Weight Traning/Phys Fitns

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1371

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course reviews the fundamentals of proper technique of weight training and provides for continued improvement in strength, endurance, and flexibility. Students will set workout goals and apply knowledge to individualized workout routines.

College/School
Education and Human Sciences

Weight Training & Physical Fitness for Women

Course Information

Course Title
Wt Trning/Phys Fit for Women

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1372

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course offers training, instruction and practice in proper techniques of the development of muscular strength, endurance, and flexibility for women. Emphasis is placed on the application of scientific principles and methods used to build, improved and maintain proper muscular fitness. Body composition and nutrition for health and fitness are also covered.

College/School
Education and Human Sciences

Course Information

Course Title
Core Stability Training

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1373

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course emphasizes core strength and stability through structured exercises focused on posture, balance, and injury prevention. Instruction highlights proper technique and safe training practices.

College/School
Education and Human Sciences

Course Information

Course Title
Crossfit

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1375

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
For all skill levels, this course is taught by certified Crossfit instructors.

College/School
Education and Human Sciences

Course Information

Course Title
Cross Training

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1374

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This class combines cardiovascular exercises to raise your heart rate and burn calories with resistance exercises to tone and sculpt your muscles. This total body class combines compound exercise training with isolated muscle group training, to give a total body workout.

College/School
Education and Human Sciences

Course Information

Course Title
Firearm Safety, Hunt, Outdoors

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1390

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
A course offered for people interested in becoming knowledgeable about firearms, hunting, and outdoorsmanship. The course covers topics such as the dangers of firearms, TWRA and national guidelines of hunting, as well as respectful conduct when hunting or being involved in outdoor activity.

College/School
Education and Human Sciences

Course Information

Course Title
Skeet and Trap Shooting

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1440

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
A course offered for those interested in learning the basics of skeet and trap shooting. This is an off-campus course. The course covers basic shotgun safety, ammunition, loading and reloading of shotgun shells, rules and regulations of competitive skeet and trap shooting.

College/School
Education and Human Sciences

Course Information

Course Title
Skeet/Trap Shoot Competition

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1441

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
A course offered for those who regularly engage in competitive skeet and trap shooting, or as an extension class of PHED 1440. This course solely focuses on competitive skeet and trap shooting and participates in competitions.

College/School
Education and Human Sciences

Course Information

Course Title
Handgun Familiarity & Safety

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1470

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
A course offered for people seeking knowledge about handgun safety, or interested in acquiring their Tennessee Handgun Carry Permit. This course covers topics such as; safety and dangers affiliated with handguns, political issues regarding handguns, ammunition, reloading, targeting, and the Tennessee Handgun Carry Permit written test and shooting test.

College/School
Education and Human Sciences

Course Information

Course Title
Divemaster

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1505

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
0

Lab Hours

Min:
4

Repeatable for Credit:
No

Course Description
Prerequisite - Minimum age 18; Certified SDI Advanced Adventure Diver or equivalent; Advance certification must include verifiable experience in deep, navigation, night, and limited vision specialties; Certified SDI Rescue Diver or equivalent; CPR certified and current; Proof of 40 logged dives/hours.

College/School
Education and Human Sciences

Requisites and Restrictions

Prerequisite:
Pre-requisite - Minimum age 18; Certified SDI Advanced Adventure Diver or equivalent; Advance certification must include verifiable experience in deep, navigation, night, and limited vision specialties; Certified SDI Rescue Diver or equivalent; CPR certified and current; Proof of 40 logged dives/hours.

Course Information

Course Title
Canoe-Camping

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1520

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course provides students with outdoor learning opportunities directly related to canoeing, kayaking and camping. Students will learn in a simulated environment and then go on an outdoor adventure incorporating canoeing and camping. Survival principles will also be studied.

College/School
Education and Human Sciences

Course Information

Course Title
Backpacking-Camping

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1530

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course provides students with outdoor learning opportunities through Backpacking Camping, and survival principles.

College/School
Education and Human Sciences

Course Information

Course Title
Rescue Diver

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1540

Credit Hours

Credit Hours:
2

Lab Hours

Min:
4

Repeatable for Credit:
No

Course Description
This course is designed for the advanced diver to develop the knowledge base and necessary skill set to effectively perform diver rescues as well as assist in and administer necessary first aid in the event of an emergency. Skills such as how to perform selfrescues, buddy rescues, recognize and calm potential panic divers, administer proper first aid to divers that have experienced dive related injuries, conduct effective search patterns and manage accident scenes are included. Rescue Diver Certification is available at the conclusion of this course.

College/School
Education and Human Sciences

Course Information

Course Title
Adv Open Water Scuba Diving

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1550

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course provides students who already hold a basic scuba certification the opportunity to learn about and participate in advanced open water diving skills. Students will be required to dive in an off campus open water location for the advanced certification.

College/School
Education and Human Sciences

Course Information

Course Title
Bicycle Touring

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1570

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed as an introduction to the basics of Biking. Students will be introduced to the basic equipment, techniques, terminology, and safety of biking.

College/School
Education and Human Sciences

Course Information

Course Title
Indoor Cycling/Spin

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1575

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This is an introductory course designed to introduce students to indoor cycling, also known as spin. Safety procedures will be stressed for successful operation of the spin bike. Endurance, strength and power will be targeted with interval spinning.

College/School
Education and Human Sciences

Course Information

Course Title
Back Country Adventure I

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1590

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed for students to gain basic knowledge and skills to be able to participate safely in back-country adventures. Certain criteria must be met in order to participate in the off campus back country adventure trip.

College/School
Education and Human Sciences

Course Information

Course Title
Back Country Adventure II

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1600

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is an advanced course in back-country. Students will participate in relevant planning, practice and skill development to prepare for an extended back-country adventure trip.

College/School
Education and Human Sciences

Challenge Course/Team Building

Course Information

Course Title
Chlnge Crs-Team Bldg Facil

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1610

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
0

Lab Hours

Min:
4

Repeatable for Credit:
No

Course Description
This course is designed to provide the student with the knowledge and skills necessary to participate in and facility challenge course programs in various settings. Basic team building skills and challenges will be included.

College/School
Education and Human Sciences

Course Information

Course Title
Bouldering Movement-Technique

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1620

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed to cover the basics of safe and responsible bouldering. Topics include equipment, bouldering techniques, safety procedures, injury prevention, and training for competitive climbing.

College/School
Education and Human Sciences

Course Information

Course Title
Basic Caving

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1630

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed to introduce students to the basics of rope climbing and rappelling. Knots, types of rope, various climbing systems, rigging, rappelling, belaying, and

College/School
Education and Human Sciences

Course Information

Course Title
Mountain Bike Skills

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1640

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed as an introduction to the basics of mountain biking. Students will be introduced to the basic equipment, techniques, terminology, and safety of necessary to go mountain biking.

College/School
Education and Human Sciences

Course Information

Course Title
Outdoor Water Skills

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1650

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course is designed to introduce for students to gain the knowledge and skills needed to safely enjoy a variety of water activities including but not limited to canoeing for recreation, relaxation, lifetime physical fitness or work.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Softball

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1870

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1. Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Riflery

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1880

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Volleyball

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1900

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Football

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1910

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Sand Volleyball

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1905

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Syllabus
PHED 1905 - Varsity Sand Volleyball Syllabus.docx

Course Information

Course Title
Varsity Basketball for Men

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1920

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Basketball for Women

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1923

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Baseball

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1930

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Tennis for Men

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1940

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Golf for Women

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1953

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Golf for Men

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1956

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Cross Country - Women

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1963

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Cross Country for Men

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1966

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Soccer

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1970

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Track/Field for Women

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1980

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Varsity Cheerleading

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
1990

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Credit 1.
Only varsity athletes and cheerleaders may enroll in varsity sports courses.

College/School
Education and Human Sciences

Course Information

Course Title
Water Safety Instructor Course

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
3050

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Cross-listing: EXPW 3050. Instruction in senior lifesaving; parts 1 & 2 of the instructor's training course in water safety.

College/School
Education and Human Sciences

Course Information

Course Title
Life Guard Training

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHED

Course Number
2100

Credit Hours

Credit Hours:
2

Lab Hours

Min:
4

Repeatable for Credit:
No

Course Description
The purpose of the American Red Cross Lifeguarding course is to provide entry-level lifeguard participants with the knowledge and skills to prevent, recognize and respond to aquatic emergencies and to provide care for breathing and cardiac emergencies, injuries and sudden illnesses until emergency medical services (EMS) personnel take over.

College/School
Education and Human Sciences

Foreign Languages Department

Professor Sheehan, Chairperson; Full Professor Barnard; Associate Professors Groundland, Olsen; Assistant Professor Martin

The foreign language curriculum is designed to give training in the language, literature, history, perspectives, and practices of the peoples whose language is studied; to provide insights into the various means of organizing thought and reality by native speakers of the language; to enable students to understand the history and development of their own language; to provide the appropriate background for graduate studies in foreign languages; and to train students for various careers in which knowledge of other cultures and languages is needed.

Students with a previous background in French, German, or Spanish might be eligible to earn up to 9 hours of lower-division credit, provided they complete a placement exam, successfully complete one upper-level course in the language at TTU, and do not already have college credit in the language for which they are seeking credit.

The Department offers two majors. Option 1 is designed for students seeking a B.A. in Foreign Languages with a concentration in Spanish. Option 1 majors may also work towards teacher licensure at the K-12 level. Although a minor is not required, it is strongly recommended, especially for students who plan careers in business, teaching, government service, or other language-related fields.

Option 2 is a B.A. designed for students who are concurrently earning a B.S. degree in a STEM field, such as engineering, engineering technology, computer science, mathematics, or the physical or biological sciences.

The B.S. degree in International Commerce and Cultures (ICC) combines language study with economics, finance, management, and marketing.

The department offers minors in French, German, Spanish, and International Studies.

Programs

FL-FLSP-1 - Foreign Languages, Spanish, Option 1, B.A.

Program Overview

Program Long Title
Foreign Languages, Spanish, Option 1, B.A.

College/School
Arts and Sciences

Department(s)
Foreign Languages

Requirements

Simple Requirements

Foreign Language, Spanish, Option 1 (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations 6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundations Scientific Reasoning (4 credits)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Foreign Language, Spanish, Option 1 Core

Complete ALL of the following Courses:
- SPAN1010 - Elementary Spanish I
  OR SPAN1015 - Spanish for Health Services
- SPAN1020 - Elementary Spanish II
- SPAN2010 - Intermediate Spanish 1
- SPAN2020 - Intermediate Spanish 2
- SPAN3010 - Written Communication/Spanish
- SPAN3020 - Oral Communication In Spanish
- SPAN4920 - Senior Capstone
- FLST1015 - Introduction to Careers in World Languages

This course is not open to students with native or native fluency in Spanish. Majors with native or near native fluency in Spanish will substitute a different upper level course for this one.

Students pursuing Teacher Licensure must take SPAN 4925: Teaching Licensure Senior Capstone instead of SPAN 4920: Senior Capstone.

i Foreign Language majors must pass SPAN 2010 with a minimum of C or better in order to enroll in SPAN 2020.

ii Foreign Language majors must pass SPAN 2020 with a minimum of C or better in order to enroll in SPAN 3010.

iii Foreign Language majors must pass SPAN 3010 with a minimum of C or better in order to enroll in subsequent upper-division Spanish courses.

iv Foreign Language majors must pass SPAN 3020 with a minimum of C or better in order to enroll in subsequent upper-division Spanish courses.

Foreign Language, Spanish, Option 1 - Upper Level SPAN Electives

12 upper division (3000-4000 level) SPAN electives.

History or Alternate Foreign Language

History Electives (6 hours)

- HIST 3550
- HIST 4354 (5354)
- HIST4520 (5530)
- HIST 4530 (5530)
- HIST 4540 (5540)
- HIST 4550 (5550)
- HIST 4560 (5560)
- HSIT 4620 (5620)
- HIST 4630
- HIST 4640
- HIST 4710 (5710)
- HIST 4730 (5730)
- HIST 4740 (5740)
- HIST 4750 (5740)

- HIST 4770 (5770)

Alternate Foreign Language (6 hours)

FREN 1010, FREN 1020, FREN 2010, or FREN 2020 or

GERM 1010, GERM 1020, GERM 2010 or GERM 2020.

Complete 6 hours from HIST, FREN, or GERM

Elective Credits

*** Electives (40 hours)**
*** NOTE: Students must complete 36 hours of upper division courses to meet university graduation requirements.**

Earn at least 4 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Requirement - Financial or Digital Literacy (4 cr)

Degree Map

Degree Map Name
Degree Plan - Foreign Language, Spanish Option 1, B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- SPAN1010 - Elementary Spanish I
  OR
- SPAN1015 - Spanish for Health Services

Actual Credits 3

Requirement Select
- FLST1015 - Introduction to Careers in World Languages

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- SPAN1020 - Elementary Spanish II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 4

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- SPAN2010 - Intermediate Spanish 1

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Electives * - 6 cr
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- SPAN2020 - Intermediate Spanish 2

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Electives* - 3 cr.
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- SPAN3010 - Written Communication/Spanish

Actual Credits 3

Requirement Select
- SPAN3020 - Oral Communication In Spanish

Actual Credits 3

Requirement Select
- Electives* (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- History or Alternate Foreign Language (see "Additional Program Requirements")
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- History or Alternate Foreign Language (see "Additinal Program Requirements")
  (Generic)

Actual Credits 3

Requirement Select
- Electives* (6 cr)
  (Generic)

Actual Credits 6

Requirement Select
- Upper-level SPAN courses (6 cr)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select
- Electives* (7 cr)
  (Generic)

Actual Credits 7

Requirement Select
- Upper-level (3000-4000) SPAN Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Electives (12 cr.)
  (Generic)

Actual Credits 12

Requirement Select
- SPAN4920 - Senior Capstone

Actual Credits 3

Requirement Select
- History Electives or Alternate Foreign Language: HIST 3550 HIST 4354 (5354) HIST4520 (5530) HIST 4530 (5530) HIST 4540 (5540) HIST 4550 (5550) HIST 4560 (5560) HSIT 4620 (5620) HIST 4630 HIST 4640 HIST 4710 (5710) HIST 4730 (5730) HIST 4740 (5740) HIST 4750 (5740) HIST 4770 (5770) Alternate Foreign Language (6 hours) FREN 1010, FREN 1020, FREN 2010, or FREN 2020 or GERM 1010, GERM 1020, GERM 2010 or GERM 2020.
  (Generic)

Actual Credits -

Requirement Select
- * NOTE: Students must complete 36 hours of upper division courses to meet university graduation requirements.
  (Generic)

Actual Credits -

FL-FLSP-2 - Foreign Languages, Spanish, Option 2, B.A.

Program Overview

Program Long Title
Foreign Languages, Spanish, Option 2, B.A.

College/School
Arts and Sciences

Department(s)
Foreign Languages

Requirements

Simple Requirements

Foreign Languages, Spanish - Option 2, B.A., (120 hours)

Type
Completion Requirement

Foreign Laguages, Spanish Conc. - Option 2

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- SPAN1010 - Elementary Spanish I
  OR SPAN1015 - Spanish for Health Services
- SPAN1020 - Elementary Spanish II
- SPAN2010 - Intermediate Spanish 1
- SPAN2020 - Intermediate Spanish 2
- SPAN3010 - Written Communication/Spanish
- SPAN3020 - Oral Communication In Spanish
- SPAN4920 - Senior Capstone
- FLST1015 - Introduction to Careers in World Languages

Additional Requirements:

Upper-level (3000-4000) SPAN electives (12 cr.)

***Electives** (46 credits)

NOTE:

- *** NOTE: Students must complete 36 hours of upper division courses to meet university graduation requirements.**

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
3. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundation Humanities and Cultural Expression (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Quantitative Reasoning and Analysis(3 cr.)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Social/Behavioral Science (6 cr.)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Scientific Reasoning (4 cr.)

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

Earn at least 4 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Financial or Digital Literacy (4 cr.)

Oral Communication (3 cr.)

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication

Degree Map

Degree Map Name
Degree Plan - Foreign Language, Spanish Option 2, B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- SPAN1010 - Elementary Spanish I
  OR
- SPAN1015 - Spanish for Health Services

Actual Credits 3

Requirement Select
- FLST1015 - Introduction to Careers in World Languages

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 4

Requirement Select
- SPAN1020 - Elementary Spanish II

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- SPAN2010 - Intermediate Spanish 1

Actual Credits 3

Requirement Select
- Electives* (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- SPAN2020 - Intermediate Spanish 2

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Electives* (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- Electives (9 cr.)
  (Generic)

Actual Credits 9

Requirement Select
- SPAN3010 - Written Communication/Spanish

Actual Credits 3

Requirement Select
- SPAN3020 - Oral Communication In Spanish

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Electives* (9 cr.)
  (Generic)

Actual Credits 9

Requirement Select
- Upper-level SPAN courses (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select

- Upper-level SPAN courses (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select

- Electives* (7 cr.)
  (Generic)

Actual Credits 7

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- Electives* (12 cr.)
  (Generic)

Actual Credits 12

Requirement Select

- SPAN4920 - Senior Capstone

Actual Credits 3

Requirement Select

- * NOTE: Students must complete 36 hours of upper division courses to meet university graduation requirements.
  (Generic)

Actual Credits -

FWP-CER - Certificate in French for the Workplace

Program Overview

Program Long Title

Certificate in French for the Workplace

College/School

Arts and Sciences

Department(s)

Foreign Languages

Requirements

Simple Requirements

French for the Workplace Certificate (FWP)

Type
Completion Requirement

Required Courses for FWP Certificate

Complete ALL of the following Courses:

- FREN1020 - Elementary French II
- FREN2010 - Intermediate French 1
- FREN2020 - Intermediate French 2
- FREN3010 - Written Communication-French
- FREN3200 - Business French
- FREN4910 - Directed Studies in French

Prerequisites for FREN 1020, 2010, 2020 and 3010 can be met by placing into the course through examination.

Degree Map

ICC-BS - International Commerce and Cultures, B.S.

Program Overview

Program Long Title
International Commerce and Cultures, B.S.

College/School
Arts and Sciences

Department(s)
Foreign Languages

Requirements

Simple Requirements

International Commerce and Cultures, Track 1, B.S. (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- General Fine Arts/Dual Focus Concentration - Glass

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial or Digital Literacy (4 hours)

Earn at least 4 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation - Financial or Digital Literacy (3 cr)

Flight Foundation Core - Humanities and Cultural Expression (9 hours)

Earn at least 9 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Program Requirements - Track 1

Complete ALL of the following Courses:
- SPAN1010 - Elementary Spanish I
  OR SPAN1015 - Spanish for Health Services
- FLST1015 - Introduction to Careers in World Languages
- MATH1530 - Introductory Statistics
- SPAN1020 - Elementary Spanish II
- MATH1710 - Pre-Calculus Algebra
- SPAN2010 - Intermediate Spanish 1
- SPAN2020 - Intermediate Spanish 2
- SPAN3010 - Written Communication/Spanish
- SPAN3020 - Oral Communication In Spanish
- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics
- ACCT3720 - Survey of Accounting
- BMGT3510 - Mgmt/Organizational Behavior
- ECON3610 - Business Statistics I
- MKT3400 - Principles of Marketing
- FIN3210 - Principles/Managerial Fin
- SPAN3200 - Spanish for Business I
- ICC4980 - Practicum

Business electives (select 2 courses)

Complete at least 2 of the following courses:
- BMGT3600 - International Management
- MKT4100 - International Marketing
- ECON4510 - International Trade/Finance
- FIN4910 - Multinational Fin Mgmt
- MKT3900 - Entrepreneurship/Sm Business
- ECON3320 - Money and Banking
- ACCT4600 - Forensic Acct & Fraud Auditing

World Studies requirement (12 cr)

Earn at least 12 credits from the following:
- ENGL2330 - Topics in World Literature
- ENGL4713 - Native American Literature
- ENGL4720 - Continental Literature
- ENGL4751 - Topics in Non-Western Lit
- FLST3520 - Cultures/Peoples-North Africa
- FREN3510 - France-Country & People
- GERM3520 - Germany-Country & People
- SPAN3510 - Spain-Country & People
- SPAN3550 - Latin America:Country & People
- GEOG1012 - Cultural Geography
- GEOG1130 - Geography of Natural Hazards
- GEOG3200 - Water Resources
- HIST3550 - Ancient Greece and Rome
- HIST4354 - Female Bodies in Western Culture
- HIST4400 - Film Studies
- HIST4401 - Film Studies
- HIST4402 - Topics: Film Studies
- HIST4403 - Film Studies

- HIST4404 - Film Studies
- HIST4405 - Film Studies
- HIST4406 - Film Studies
- HIST4407 - Film Studies
- HIST4408 - Film Studies
- HIST4409 - Film Studies
- HIST4520 - Medieval Europe
- HIST4530 - Renaissance & Reformation
- HIST4540 - Absolutism & Enlightenment
- HIST4550 - French Revolution & Napoleon
- HIST4560 - 19th Century Europe
- HIST4570 - World War II & The Cold War
- HIST4620 - Russia
- HIST4630 - History of France
- HIST4640 - History of Modern Germany
- HIST4650 - England to 1688
- HIST4660 - Modern England
- HIST4665 - World War I
- HIST4680 - The Holocaust
- HIST4690 - British Empire & Commonwealth
- HIST4710 - History of Africa
- HIST4730 - The Modern Middle East
- HIST4740 - History of Japan
- HIST4750 - History of China
- HIST4760 - Vietnam: Its Wars & Aftermath
- HIST4770 - History of India and South Asia
- HIST4790 - Latin American Studies
- HIST4791 - Latin American Studies
- HIST4792 - Latin American Studies
- HIST4793 - Latin American Studies
- HIST4794 - Latin American Studies
- HIST4795 - Latin American Studies
- HIST4796 - Latin American Studies
- HIST4797 - Latin American Studies
- HIST4798 - Latin American Studies
- HIST4799 - Latin American Studies

Additional Requirement:

* Electives (13 credits)

Additional Comments:
*Students MUST complete 36 hours of upper division courses as part of the University's graduation requirement.

International Commerce and Cultures, Track 2, B.S. (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 cr.)

Earn at least 3 credits from the following:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundations Core - Historical Foundations (6 cr.)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial or Digital Literacy (4 cr.)

Earn at least 4 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (9 cr.)

Earn at least 9 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social and Behavioral Sciences (6 cr.)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

Program Requirements - Track 2

Complete ALL of the following Courses:

- FLST1015 - Introduction to Careers in World Languages
- SOC1010 - Intro to Sociology
- MATH1530 - Introductory Statistics
- POLS1030 - American Government
- MATH1710 - Pre-Calculus Algebra
- HIST2310 - Early World History
- ECON2010 - Principles of Microeconomics
- ENGL2130 - Topics in American Literature
- HIST2320 - Modern World History
- ECON2020 - Principles of Macroeconomics
- ACCT3720 - Survey of Accounting
- RELS2010 - Intro to Religious Studies
  OR SOC2110 - Soc Class/Inequality in Am
- HEC2020 - Nutrition
- POLS3200 - American Political Thought
- BMGT3510 - Mgmt/Organizational Behavior
- ECON3610 - Business Statistics I
- MKT3400 - Principles of Marketing
- GEOG1130 - Geography of Natural Hazards
- FIN3210 - Principles/Managerial Fin
- ICC4980 - Practicum

American Studies requirement - Track 2

Complete at least 2 of the following courses:

- ENGL3910 - American Literature I
- ENGL3920 - American Literature II
- ENGL4310 - Early American Lit
- ENGL4320 - 19th Century American Lit
- ENGL4330 - Modern American Lit
- ENGL4340 - Topics in American Literature
- ENGL4561 - American English
- ENGL4712 - African American Literature
- ENGL4713 - Native American Literature
- ENGL4820 - Upper Cumberland Folklore
- ENGL4830 - Southern Literature
- GEOG1012 - Cultural Geography
- HIST3360 - American Military History
- HIST3900 - Environmental History
- HIST3910 - Intro./American Indian Studies
- HIST4010 - Colonial/Revolutionary Periods
- HIST4020 - The Young Republic 1789-1849
- HIST4030 - Civil War & Reconstruction
- HIST4050 - Transform/Mod Am, 1912-1945
- HIST4090 - 20th Century US Popular Culture
- HIST4091 - Studies in Popular Culture
- HIST4092 - Studies in Popular Culture
- HIST4093 - Studies in Popular Culture
- HIST4094 - Studies in Popular Culture
- HIST4095 - Studies in Popular Culture
- HIST4096 - Studies in Popular Culture
- HIST4097 - Studies in Popular Culture
- HIST4098 - Studies in Popular Culture
- HIST4099 - Studies in Popular Culture
- HIST4110 - Appalachian History/Culture
- HIST4111 - Appalachian History/Culture
- HIST4112 - Appalachian History/Culture
- HIST4113 - Appalachian History/Culture
- HIST4114 - Appalachian History/Culture
- HIST4115 - Appalachian History/Culture
- HIST4116 - Appalachian History/Culture
- HIST4117 - Appalachian History/Culture
- HIST4118 - Appalachian History/Culture
- HIST4119 - Appalachian History/Culture
- HIST4200 - The Old South
- HIST4210 - The New South
- HIST4230 - Topics/US Economic History
- HIST4231 - Topics/US Economic History
- HIST4232 - Topics/US Economic History
- HIST4233 - Topics/US Economic History
- HIST4234 - Topics/US Economic History
- HIST4235 - Topics/US Economic History
- HIST4236 - Topics/US Economic History
- HIST4237 - Topics/US Economic History
- HIST4238 - Topics/US Economic History
- HIST4239 - Topics/US Economic History
- HIST4250 - American Westward Movement
- HIST4330 - Religious Studies
- HIST4331 - Religious Studies
- HIST4332 - Religious Studies
- HIST4333 - Religious Studies
- HIST4334 - Religious Studies
- HIST4335 - Religious Studies
- HIST4336 - Religious Studies
- HIST4337 - Religious Studies
- HIST4338 - Religious Studies
- HIST4339 - Religious Studies
- HIST4360 - U S Social History
- HIST4361 - U S Social History
- HIST4362 - U S Social History
- HIST4363 - U S Social History
- HIST4334 - Religious Studies
- HIST4335 - Religious Studies
- HIST4336 - Religious Studies
- HIST4337 - Religious Studies
- HIST4338 - Religious Studies
- HIST4339 - Religious Studies
- HIST4380 - Black Women in US History
- HIST4390 - Topics: African Am Studies
- HIST4391 - Topics: African Am Studies
- HIST4392 - Topics: African Am Studies
- HIST4393 - Topics: African Am Studies
- HIST4394 - Topics: African Am Studies
- HIST4395 - Topics: African Am Studies
- HIST4396 - Topics: African Am Studies
- HIST4397 - Topics: African Am Studies
- HIST4398 - Topics: African Am Studies
- HIST4399 - Topics: African Am Studies
- HIST4881 - Studies in Legal History
- HIST4882 - Studies in Legal History
- HIST4883 - Studies in Legal History
- HIST4884 - Studies in Legal History
- HIST4885 - Studies in Legal History
- HIST4886 - Studies in Legal History
- HIST4887 - Studies in Legal History
- HIST4888 - Studies in Legal History
- HIST4889 - Studies in Legal History
- POLS3200 - American Political Thought
- POLS4210 - American Political Parties
- SOC4610 - Contemporary Amer Family

Business Electives (select 2)

Complete at least 2 of the following courses:

- BMGT3600 - International Management
- MKT4100 - International Marketing
- ECON4510 - International Trade/Finance
- FIN4910 - Multinational Fin Mgmt
- MKT3900 - Entrepreneurship/Sm Business
- ECON3320 - Money and Banking
- ACCT4600 - Forensic Acct & Fraud Auditing

Additional Requirement:

* Electives (22 credits)

Additional Comments:
*Students MUST complete 36 hours of upper division courses as part of the University's graduation requirements.

Degree Map

Degree Map Name
International Business & Cultures, Track 1, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative

- Students must complete a total of 36 hours of upper division courses as part of the University's graduation requirements.

Year	Semester	Actual Credits

Freshman Year	First Semester	15

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- SPAN1010 - Elementary Spanish I
  OR
- SPAN1015 - Spanish for Health Services

Actual Credits 3

Requirement Select
- FLST 1015 (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- SPAN1020 - Elementary Spanish II

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- SPAN2010 - Intermediate Spanish 1

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 4

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ACCT3720 - Survey of Accounting

Actual Credits 3

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- SPAN2020 - Intermediate Spanish 2

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- World Studies Electives (ICC, Track 1)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- ECON3610 - Business Statistics I

Actual Credits 3

Requirement Select
- SPAN3010 - Written Communication/Spanish

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- SPAN3020 - Oral Communication In Spanish

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- International Commerce/Cultures (ICC, Track 1)-Business Elective

Actual Credits 3

Requirement Select
- World Studies Electives (ICC, Track 1)

Actual Credits 3

Year	Semester	Actual Credits
Seior Year	First Semester	12

Requirement Select
- SPAN3200 - Spanish for Business I

Actual Credits 3

Requirement Select
- International Commerce/Cultures (ICC, Track 1)-Business Elective

Actual Credits 3

Requirement Select
- World Studies Electives (ICC, Track 1)

Actual Credits 3

Requirement Select
- General electives* (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Seior Year	Second Semester	16

Requirement Select
- General electives* (10 cr.) (Generic)

Actual Credits 10

Requirement Select
- World Studies Electives (ICC, Track 1)

Actual Credits 3

Requirement Select
- ICC4980 - Practicum

Actual Credits 3

Degree Map Name
International Business & Cultures, Track 2, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative

- Students must complete a total of 36 hours of upper division courses as part of the University's graduation requirements.

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- FLST 1015 (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- POLS1030 - American Government

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- ENGL2130 - Topics in American Literature

Actual Credits 3

Requirement Select
- HIST2310 - Early World History

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ACCT3720 - Survey of Accounting

Actual Credits 3

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- HIST2320 - Modern World History

Actual Credits 3

Requirement Select
- RELS2010 - Intro to Religious Studies
  OR
- SOC2110 - Soc Class/Inequality in Am

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	12

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- ECON3610 - Business Statistics I

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Requirement Select
- POLS3200 - American Political Thought

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- GEOG1130 - Geography of Natural Hazards

Actual Credits 3

Requirement Select
- International Commerce/Cultures (ICC, Track 2)-Business Electives

Actual Credits 3

Requirement Select
- American Studies Electives (ICC, Track 2)

Actual Credits 3

Requirement Select
- American Studies Electives (ICC, Track 2)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- American Studies Electives (ICC, Track 2)

Actual Credits 3

Requirement Select
- American Studies Electives (ICC, Track 2)

Actual Credits 3

Requirement Select
- International Commerce/Cultures (ICC, Track 2)-Business Electives

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Second Semester	16

Requirement Select
- General electives* (13 cr.)
  (Generic)

Actual Credits 13

Requirement Select
- ICC4980 - Practicum

Actual Credits 3

INST-MIN - International Studies Minor

Program Overview

Program Long Title
International Studies Minor

College/School
Arts and Sciences

Department(s)
Foreign Languages

Requirements

Simple Requirements

International Studies Minor

Type
Completion Requirement

Lower division international topics

Earn at least 9 credits from the following:

- FLST1011 - Elem Foreign Lang Study I
- FLST1013 - Elem Foreign Lang Study I
- FREN1010 - Elementary French I
- FREN1020 - Elementary French II
- FREN2010 - Intermediate French 1
- FREN2020 - Intermediate French 2
- GEOG1012 - Cultural Geography
- GEOG1035 - World Regional Geography I
- GEOG1100 - Global Climate Change (Inactive)
- GEOG1130 - Geography of Natural Hazards
- GERM1010 - Elementary German I
- GERM1020 - Elementary German II
- GERM2010 - Intermediate German 1
- GERM2020 - Intermediate German 2
- HIST1310 - Science and World Cultures
- HIST2310 - Early World History
- HIST2320 - Modern World History
- SOC2100 - Cultural Ecology
- SPAN1010 - Elementary Spanish I
- SPAN1020 - Elementary Spanish II
- SPAN2010 - Intermediate Spanish 1
- SPAN2020 - Intermediate Spanish 2

Upper Division

Earn at least 6 credits from the following:

- BMGT3600 - International Management
- COMM3620 - Intercultural Communication
- ECON4510 - International Trade/Finance
- ENGL4700 - Non-Western Literature
- ENGL4720 - Continental Literature
- FLST2520 - Cultures/Peoples-North Africa
- FREN3510 - France-Country & People
- GERM3520 - Germany-Country & People
- HIST3550 - Ancient Greece and Rome
- HIST3710 - Survey of Spanish History
- HIST4520 - Medieval Europe
- HIST4530 - Renaissance & Reformation
- HIST4540 - Absolutism & Enlightenment
- HIST4550 - French Revolution & Napoleon
- HIST4560 - 19th Century Europe
- HIST4570 - World War II & The Cold War
- HIST4620 - Russia
- HIST4630 - History of France
- HIST4640 - History of Modern Germany
- HIST4650 - England to 1688
- HIST4660 - Modern England
- HIST4665 - World War I
- HIST4670 - Civil War/Reconstruc 1850-1877 (Inactive)
- HIST4680 - The Holocaust
- HIST4685 - Emrgnce/Mdrn America 1877-1914
- HIST4690 - British Empire & Commonwealth
- HIST4710 - History of Africa
- HIST4730 - The Modern Middle East
- HIST4740 - History of Japan
- HIST4750 - History of China
- HIST4760 - Vietnam: Its Wars & Aftermath
- HIST4790 - Latin American Studies
- HIST4791 - Latin American Studies
- HIST4792 - Latin American Studies
- HIST4793 - Latin American Studies
- HIST4794 - Latin American Studies
- HIST4795 - Latin American Studies
- HIST4796 - Latin American Studies
- HIST4797 - Latin American Studies
- HIST4798 - Latin American Studies
- HIST4799 - Latin American Studies
- MKT4100 - International Marketing
- PHIL3310 - Hist-Ancient & Medieval Phil
- PHIL4020 - Comparative Religion
- POLS3610 - International Politics
- POLS3650 - International Organizations
- POLS4100 - International Law
- SOC4040 - Law & Culture
- SOC4090 - Cross Cult Comm/Cult Diversity
- SOC4210 - Race/Ethnicity/Multicultural
- SPAN3510 - Spain-Country & People
- SPAN3550 - Latin America:Country & People

Additional Comments:
Note: Any upper level foreign language class not used for the foreign language requirement may be used for the required six credit hours of upper division. 6 credit hours of foreign language instruction is required.

SPAN-MIN - Spanish Minor

Program Overview

Program Long Title
Spanish Minor

College/School
Arts and Sciences

Department(s)
Foreign Languages

Requirements

Simple Requirements

Minor in Spanish (SPAN)

A minor in French, German, or Spanish will consist of at least 15 credit hours of coursework including FREN, GERM, SPAN 3010 and FREN, GERM, SPAN 3020 and may not include FREN 2510/FREN 3510, GERM 2520/GERM 3520, SPAN 2510/SPAN 3510, or SPAN 2550/SPAN 3550.

Courses

Course Information

Course Title
English as a Second Language

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESL

Course Number
1010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
English for non-native speakers with emphasis on pronunciation, idioms, syntax, and vocabulary. Additional work in the language laboratory at the discretion of the instructor.

College/School
Arts and Sciences

Course Information

Course Title
English as a Second Language

Academic Level (Course Level)
Undergraduate

Course Subject Code
ESL

Course Number
1020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
English for non-native speakers with emphasis on pronunciation, idioms, syntax, and vocabulary. Additional work in the language laboratory at the discretion of the instructor.

College/School
Arts and Sciences

Course Information

Course Title
Foreign Lang & Cultural Stu I

Academic Level (Course Level)
Undergraduate

Course Subject Code
FLCS

Course Number
1010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Cross-listed with: FREN 1010 Elementary French I, GERM 1010 Elementary German I, SPAN 1010 Elementary Spanish I.

College/School
Arts and Sciences

Course Information

Course Title
Foreign Lang & Cultural Stu II

Academic Level (Course Level)
Undergraduate

Course Subject Code
FLCS

Course Number
1020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Cross-listed with: FREN 1020 Elementary French II, GERM 1020 Elementary German II, SPAN 1020 Elementary Spanish II.

College/School
Arts and Sciences

Course Information

Course Title
Foreign Lang/Cultural Stu III

Academic Level (Course Level)
Undergraduate

Course Subject Code
FLCS

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Cross-listed with: FREN 2010 Transition to Intermediate French, GERM 2010 Transition to Intermediate German, SPAN 2010 Transition to Intermediate Spanish.

College/School
Arts and Sciences

Course Information

Course Title
Foreign Lang & Cultural Stu IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
FLCS

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Cross-listed with: FREN 2020 Intermediate French, GERM 2020 Intermediate German, SPAN 2020 Intermediate Spanish.

College/School
Arts and Sciences

Course Information

Course Title
Global Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
FLCS

Course Number
3000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing. Global topics will be examined from the perspective of current research in Germanic, Hispanic, and Francophone Studies, and from a variety of other disciplines, highlighting connections between the larger class topic, the international community, and the local community. Topics will change.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Elem Foreign Lang Study I

Academic Level (Course Level)
Undergraduate

Course Subject Code
FLST

Course Number
1011

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Essentials of the language, developing listening and reading comprehension, oral and written communication, and cultural understanding. Language of study is not regularly offered on campus. This course will primarily be used for study abroad and for transfer credit. Course may be repeated if the language is different. Prerequisite: None.

College/School
Arts and Sciences

Course Information

Course Title
Elem Foreign Lang Study I

Academic Level (Course Level)
Undergraduate

Course Subject Code
FLST

Course Number
1013

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Essentials of the language, developing listening and reading comprehension, oral and written communication, and cultural understanding. Language of study is not regularly offered on campus. This course will primarily be used for study abroad and for transfer credit. Course may be repeated if the language is different. Prerequisite: None.

College/School
Arts and Sciences

Introduction to Careers in World Languages

Course Information

Course Title
Intro Careers World Languages

Academic Level (Course Level)
Undergraduate

Course Subject Code
FLST

Course Number
1015

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to Careers in World Languages familiarizes students with career possibilities in world languages and concepts in language acquisition. The goal is to prepare students for successful development of linguistic competencies, cultural understanding, and career readiness skills. This course will use readings, videos, class discussions, and group work to aid students in the development of these skills.

College/School
Arts and Sciences

Syllabus
FLST 1015-Syllabus (1).docx

Course Information

Course Title
Elem Foreign Lang Study I

Academic Level (Course Level)
Undergraduate

Course Subject Code
FLST

Course Number
1021

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: FLST 1013 or equivalent is prerequisite to 1021. Essentials of the language, developing listening and reading comprehension, oral and written communication, and cultural understanding. Course may be repeated if the langage is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FLST 1013 or equivalent is prerequisite to 1021.

Course Information

Course Title
Elem Foreign Lang Study I

Academic Level (Course Level)
Undergraduate

Course Subject Code
FLST

Course Number
1023

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: FLST 1013 or equivalent is prerequisite to FLST 1023. Essentials of the language, developing listening and reading comprehension, oral and written communication, and cultural understanding. Course may be repeated if the language is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FLST 1013 or equivalent is prerequisite to FLST 1021.

Course Information

Course Title
Cultures/Peoples-North Africa

Academic Level (Course Level)
Undergraduate

Course Subject Code
FLST

Course Number
2520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: None. This course is an introduction to the culture, politics, geography, diversity, arts, social structures, and history of selected nations of North Africa. Credit will not be given for both FLST 2520 and FLST 3520.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Cultures/Peoples-North Africa

Academic Level (Course Level)
Undergraduate

Course Subject Code
FLST

Course Number
3520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: None. This course is an introduction to the culture, politics, geography, diversity, arts, social structures, and history of Morocco, Algeria, and Tunisia. Credit will not be given for both FLST 2520 and FLST 3520.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Elementary French I

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
1010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Essentials of French, developing listening and reading comprehension, oral and written communication, and cultural understanding.

College/School
Arts and Sciences

Course Information

Course Title
Elementary French II

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
1020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FREN 1010. Essentials of French, developing listening and reading comprehension, oral and written communication, and cultural understanding. Qualified students may be able to take this course without the prerequisite by contacting the Department of Foreign Languages.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FREN 1010.

Course Information

Course Title
Intermediate French 1

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FREN 1020. Continuation of the essentials of French, developing listening and reading comprehension, oral and written communication, and cultural understanding begun in 1010-1020. Review as necessary. Foreign language majors must pass this course with a grade of C or better in order to continue to the next course in the sequence.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FREN 1020.

Course Information

Course Title
Intermediate French 2

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FREN 2010. Expansion of French language study, building on the fundamentals of French acquired in 1010, 1020, and 2010. Foreign language majors must pass this course with a grade of C or better in order to continue to the next course in the sequence.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FREN 2010.

Course Information

Course Title
French Culture & Civilization

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
2510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
No background in French required. This course is taught in English. Introduction to French cultural and intellectual history, geography and diversity, arts and the political and social structures and characteristics of France today. Credit will not be give for both FREN 2510 and FREN 3510.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Written Communication-French

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
3010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FREN 2020. Advanced grammar and composition and mastery of idiomatic expressions. Required for majors. Foreign language majors must pass this course with a grade of C or better in order to continue to the next course in the sequence.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FREN 2020.

Course Information

Course Title
Oral Communication in French

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FREN 2020. Oral communication (speaking and listenging) with additional practice in writing and reading while exploring cultural topics. Required for majors. Students with native-like fluency in French will substitute a different upper-level course for this one. Qualified students may be able to take this course without the prerequisite by contacting the instructor. Foreign language majors must pass this course with a grade of C or better in order to continue to the next course in the sequence.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FREN 2020.

Course Information

Course Title
Survey of French Lit I

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
3110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FREN 3010. Literature of France from its earliest development to the present day. Required for majors.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FREN 3010.

Course Information

Course Title
Survey of French Lit II

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
3120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FREN 3010. Literature of France from its earliest development to the present day. Required for majors.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FREN 3010.

Course Information

Course Title
Culture/Civ of France

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
3112

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FREN 3010. A study of important aspects of French civilization and culture from its beginning to present day. Required for French majors.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FREN 3010.

Course Information

Course Title
Business French

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: FREN 3010. Business vocabulary, readings, and conversations in French on various business topics and on culture as it affects business interactions and practices in social and formal situations. Required for majors in World Cultures and Business who have a concentration in French. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FREN 3010.

Course Information

Course Title
Special Topics in French

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
4810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: FREN 3010. This course may be repeated if the topic is different. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FREN 3010.

Course Information

Course Title
France-Country & People

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
3510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
No background in French required. Introduction in English to the history, arts, geography, and government of France and to the social characteristics of the French people.

College/School
Arts and Sciences

Course Information

Course Title
Directed Studies in French

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
4910

Credit Hours

Credit Hours:
1

Credit Hours:
6

Other Hours

Min:
1

Max:
6

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: FREN 3010 or equivalent or consent of instructor. Concentrated readings in areas of special interest. Available to French majors on an individual basis, with consent of departmental chairperson.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
FREN 3010 or equivalent or consent of instructor.

Course Information

Course Title
Senior Capstone

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
4920

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Consent of the Chair of the Foreign Language Department. Senior Standing required, normally taken during the last semester before graduation. Students will work individually, under the guidance of a faculty member, to create a portfolio and prepare a presentation to faculty and other students. In this course, students will enhance and demonstrate their cultural literacy, knowledge, and skills in the target language, integrating the three modes of communication: interpretive (listening and reading), presentational (speaking and writing), and interpersonal (listening, speaking, reading, and writing). Students' achievements will reflect a level of competency comparable to the Tennessee knowledge and skills goals as described below. This course is required for all foreign language majors, except for those students pursuing teaching licensure. They are required to take 4925: Teaching Licensure Senior Capstone.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of the Chair of the Foreign Language Department. Senior Standing required, normally taken during the last semester before graduation.

Course Information

Course Title
Teaching Licensure Sr Capstone

Academic Level (Course Level)
Undergraduate

Course Subject Code
FREN

Course Number
4925

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Senior standing. Restricted to and required for all students pursuing a degree in Bachelor of Arts in French, German, or Spanish with SEED Licensure. This course is taken in the fall semester of the senior year. Exceptions must be approved by the Chair of the Department of Foreign Languages. In accordance with the School of Education, this course must be completed before entering teaching residency.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Senior Standing. Restricted to and required for all students pursuing a degree in Bachelor of Arts in French with SEED Licensure. This course is taken in the fall semester of the senior year. Exceptions must be approved by the Chair of the Department of Foreign Languages. In accordance with the School of Education, this course must be completed before entering teaching residency.

Course Information

Course Title
Elementary German I

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
1010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Essentials of German, developing listening and reading comprehension, oral and written communication, and cultural understanding.

College/School
Arts and Sciences

Course Information

Course Title
Elementary German II

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
1020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: GERM 1010. Essentials of German, developing listening and reading comprehension, oral and written communication, and cultural understanding. Qualified students may be able to take this course without the prerequisite by contacting the Departments of Foreign Languages.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GERM 1010.

Course Information

Course Title
Intermediate German 1

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: GERM 1020. Continuation of the essentials of German, developing listening and reading comprehension, oral and written communication, and cultural understanding begun in 1010-1020. Review as necessary. Foreign language majors must pass this course with a grade of C or better in order to continue to the next course in the sequence.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GERM 1020.

Course Information

Course Title
Intermediate German 2

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: GERM 2010. Expansion of German language study, building on the fundamentals of German acquired in 1010, 1020, and 2010. Foreign language majors must pass this course with a grade of C or better in order to continue to the next course in the sequence.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GERM 2010.

Course Information

Course Title
German Culture & Civilization

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
2520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
No background in German required. Introduction in English to German cultural history, geography and diversity, art, architecture, music and literature, and to the political and social structures and characteristics of Germany today in the context of the European Union. Credit will not be given for both GERM 2520 and GERM 3520.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Written Communication/German

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
3010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: GERM 2020. Advanced grammar and composition course. Further development of written command of language structures with additional practice in listening and speaking, while exploring cultural topics. Emphasis on writing proficiency. Required for majors. Qualified students may be able to take this course without the prerequisite by contacting the instructor. Foreign language majors must pass this course with a grade of C or better in order to continue to the next course in the sequence.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GERM 2020.

Course Information

Course Title
Oral Communication/German

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: GERM 2020. Advanced conversation and grammar course. Further development of oral command of language structures with additional practice in writing and reading while exploring cultural topics. Emphasis on speaking proficiency. Required for majors. Students with native-like fluency in German will substitute a different upper-level course for this one. Qualified students may be able to take this course without the prerequisite by contacting the instructor. Foreign language majors must pass this course with a grade of C or better in order to continue to the next course in the sequence.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GERM 2020.

Course Information

Course Title
German Civilization/Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
3112

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: GERM 2020. Introduction to Germany, its history and products of its culture, taught in German. Required for the German major. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GERM 2020.

Course Information

Course Title
Intro to German Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
3150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: GERM 3010 . Literature of the German-speaking countries from its earliest development to the present day. Required for majors. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GERM 3010.

Course Information

Course Title
Business German

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: GERM 3010. Business vocabulary, readings and conversations in German on various business topics and on culture as it affects business interactions, and practices in social and formal situations. Required for majors in World Cultures and Business who have a concentration in German. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GERM 3010.

Course Information

Course Title
Germany-Country & People

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
3520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
No background in German required. An expanded version of GERM 3510 with some additional topics. No credit will be given for both GERM 3510 and GERM 3520.

College/School
Arts and Sciences

Course Information

Course Title
German Lit-English Translation

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
4510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in German literature, with lectures and readings in English. No foreign language training is required.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics in German

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
4810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: GERM 3010. May be taken more than once. This course may be repeated if the topic is different. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GERM 3010.

Course Information

Course Title
Directed Studies in German

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
4910

Credit Hours

Credit Hours:
1

Credit Hours:
6

Other Hours

Min:
1

Max:
6

Operator:
TO

Repeatable for Credit:
Yes

Number Of Credits:
16

Course Description
Read. 1-6. Credit 1-6 per semester. Maximum 16.
Prerequisite: GERM 3010 or equivalent or consent of instructor. Concentrated readings in areas of special interest. Available to German majors on an individual basis, with consent of departmental chairperson.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
GERM 3010 or equivalent or consent of instructor.

Course Information

Course Title
Senior Capstone

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
4920

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Consent of the Chair of the Foreign Language Department. Senior Standing required, normally taken during the last semester before graduation. Students will work individually, under the guidance of a faculty member, to create a portfolio and prepare a presentation to faculty and other students. In this course, students will enhance and demonstrate their cultural literacy, knowledge, and skills in the target language, integrating the three modes of communication: interpretive (listening and reading), presentational (speaking and writing), and interpersonal (listening, speaking, reading, and writing). Students' achievements will reflect a level of competency comparable to the Tennessee knowledge and skills goals as described below. This course is required for all foreign language majors, except for those students pursuing teaching licensure. They are required to take 4925: Teaching Licensure Senior Capstone.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of the Chair of the Foreign Language Department. Senior Standing required, normally taken during the last semester before graduation.

Course Information

Course Title
Teaching Licensure Sr Capstone

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
4925

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Senior standing. Restricted to and required for all students pursuing a degree in Bachelor of Arts in French, German, or Spanish with SEED Licensure. This course is taken in the fall semester of the senior year. Exceptions must be approved by the Chair of the Department of Foreign Languages. In accordance with the School of Education, this course must be completed before entering teaching residency.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Senior Standing. Restricted to and required for all students pursuing a degree in Bachelor of Arts in German with SEED Licensure. This course is taken in the fall semester of the senior year. Exceptions must be approved by the Chair of the Department of Foreign Languages. In accordance with the School of Education, this course must be completed before entering teaching residency.

Course Information

Course Title
Practicum

Academic Level (Course Level)
Undergraduate

Course Subject Code
ICC

Course Number
4980

Credit Hours

Credit Hours:
3

Credit Hours:
10

Other Hours

Min:
3

Max:
10

Operator:
TO

Repeatable for Credit:
Yes

Number Of Repeats:
3

Course Description
Students either A) engage in a semester-long, internship experience in a business environment or B) prepare a research project related to a global business topic. In both instances, students will enhance their foreign language skills and cultural awareness as they relate to international commerce and the global marketplace.

College/School
Arts and Sciences

Syllabus
ICC 4980 syllabus.pdf

Requisites and Restrictions

Prerequisite:
Junior or Senior standing; consent of instructor.

Course Information

Course Title
Japan-Country & People

Academic Level (Course Level)
Undergraduate

Course Subject Code
JAPN

Course Number
3510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
No background in Japanese required. Introduction in English to the history, arts, geography, and business structures of Japan, and to the customs of Japanese society.

College/School
Arts and Sciences

Course Information

Course Title
Elementary Russian I

Academic Level (Course Level)
Undergraduate

Course Subject Code
RUSS

Course Number
1010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Essentials of Russian, developing listening and reading comprehension, oral and written communication, and cultural understanding.

College/School
Arts and Sciences

Course Information

Course Title
Elementary Russian II

Academic Level (Course Level)
Undergraduate

Course Subject Code
RUSS

Course Number
1020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: RUSS 1010 or equivalent is prerequisite to 1020. Essentials of Russian, developing listening and reading comprehension, oral and written communication, and cultural understanding.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
RUSS 1010 or equivalent is prerequisite to 1020.

Course Information

Course Title
Intermediate Russian I

Academic Level (Course Level)
Undergraduate

Course Subject Code
RUSS

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: RUSS 1020 or equivalent. Continuation of the essentials of Russian, developing listening and reading comprehension, oral and written communication, and cultural understanding begun in 1010-1020. Review as necessary.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
RUSS 1020 or equivalent.

Course Information

Course Title
Intermediate Russian II

Academic Level (Course Level)
Undergraduate

Course Subject Code
RUSS

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: RUSS 2010 or equivalent. Expansion of Russian language study, building on the fundamentals of Russian acquired in 1010, 1020, and 2010.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
RUSS 2010 or equivalent.

Course Information

Course Title
Russian:Country & People

Academic Level (Course Level)
Undergraduate

Course Subject Code
RUSS

Course Number
3510

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
No background in Russian required. Introduction in English to the arts, geography, economics, and government of Russia and to the social characteristics of the people.

College/School
Arts and Sciences

Course Information

Course Title
Elementary Spanish I

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
1010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Essentials of Spanish, developing listening and reading comprehension, oral and written communication, and cultural understanding. Students may enroll in SPAN 1010 or SPAN 1015, but not both. Native speakers of Spanish may not take this course.

College/School
Arts and Sciences

Course Information

Course Title
Spanish for Health Services

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
1015

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Spanish language instruction for students entering healthcare-related fields. They will learn the Spanish language—development of oral, reading, writing, and listening communication skills–and knowledge of Hispanic culture necessary to be able to communicate with their future Hispanic patients efficiently and effectively. Students may enroll in SPAN 1010 or SPAN 1015, but not both. Native speakers of Spanish may not take this course.

College/School
Arts and Sciences

Requisites and Restrictions

Note:
Credit cannot be received for both SPAN 1010 and SPAN 1015.

Course Information

Course Title
Elementary Spanish II

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
1020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPAN 1010 or SPAN 1015. Essentials of Spanish, developing listening and reading comprehension, oral and written communication, and cultural understanding. Qualified students may be able to take this course without the prerequisite by contacting the Department of Foreign Languages.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 1010 or SPAN 1015.

Course Information

Course Title
Intermediate Spanish 1

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPAN 1020. Continuation of the essentials of Spanish, developing listening and reading comprehension, oral and written communication, and cultural understanding begun in 1010-1020. Review as necessary. Qualified students may be able to take this course without the prerequisite by contacting the Department of Foreign Languages. Foreign language majors must pass this course with a grade of C or better in order to continue to the next course in the sequence.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 1020.

Course Information

Course Title
Intermediate Spanish 2

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPAN 2010. Expansion of Spanish language study, building on the fundamentals of Spanish acquired in 1010, 1020, and 2010. Foreign language majors must pass this course with a grade of C or better in order to continue to the next course in the sequence.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 2010.

Course Information

Course Title
Spanish Culture & Civ

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
2510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
No back ground in Spanish required. This course is taught in English. Introduction to Spanish cultural and intellectual history, geography and diversity, arts and the political and social structures, and characteristics of Spain today. Credit will not be give for both SPAN 2510 and SPAN 3510.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Latin Am Culture & Civ

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
2550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
No background in Spanish required. Introduction in English to Spanish Latin American cultural history, geography, cultural and ethnic diversity, art, music, literature and to the political and social structures that have shaped modern Latin America. Credit will not be given for both SPAN 2550 and SPAN 3550.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Written Communication/Spanish

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
3010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPAN 2020. Grammatical expansion and analysis, study of idiomatic expressions, and composition. Required for majors. Foreign language majors must pass this course with a grade of C or better in order to continue to the next course in the sequence.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 2020.

Course Information

Course Title
Oral Communication In Spanish

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPAN 2020. Oral communication (speaking and listening) with additional practice in writing and reading while exploring cultural topics. Required for majors. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 2020.

Course Information

Course Title
Spanish for Business I

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPAN 3010. Business vocabulary and readings in Spanish on various business topics and on culture as it affects business interactions and practices. Required for World Cultures and Business majors with language concentration in Spanish. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 3010.

Course Information

Course Title
Spain-Country & People

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
3510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
No background in Spanish required. Introduction in English to the history, arts, geography, and government of Spain and to the civilization and social characteristics of the Spanish people.

College/School
Arts and Sciences

Course Information

Course Title
Latin America:Country & People

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
3550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
No background in Spanish required. Introduction in English to the history, arts, geography, and governments of the Spanish-speaking countries of Latin America and to the civilization and social characteristics of the people.

College/School
Arts and Sciences

Course Information

Course Title
Intro to Literature of Spain

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
4010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPAN 3010. Selections from the literature of Spain. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 3010.

Course Information

Course Title
Intro/Lit of Spanish America

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
4020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPAN 3010. Selections from the literature of Spanish America. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 3010.

Course Information

Course Title
Adv Spanish Conversation

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
4030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPAN 3020. Discussion in Spanish on political, medical, legal, and business topics. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 3020.

Course Information

Course Title
Culture/Civilization of Spain

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPAN 3010. Lectures, readings, and discussion in Spanish on the culture and civilization of Spain. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 3010.

Course Information

Course Title
Culture/Civ of Spanish Amer

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SPAN 3010. Lectures, readings and discussion in Spanish on the culture and civilization of Spanish America. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 3010.

How Spanish Works: Theory & Application

Course Information

Course Title
How Spanish Works/Theory & App

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Provides a foundation in the principal areas of linguistics, specifically focusing on the analysis of the Spanish language. The overall goal of this course is to understand the basic linguistic structures of Spanish. The course begins with an introduction to the scientific study of language, including the human capacity for communication. The course also covers the fundamental knowledge of: the Spanish sound system (phonetics and phonology), the formation of words and sentence structures in Spanish (morphology and syntax), the study of meaning and functional usage of Spanish (semantics and pragmatics). Other topics covered include the history of the Spanish language, linguistic variation in Spanish, and Spanish in the United States.

College/School
Arts and Sciences

Syllabus
SPAN 4210 Syllabus.docx

Requisites and Restrictions

Prerequisite:
SPAN 3010

Course Information

Course Title
Special Topics in Spanish

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
4810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: SPAN 3010. This course may be repeated if the topic is different. Qualified students may be able to take this course without the prerequisite by contacting the instructor.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 3010.

Course Information

Course Title
Directed Studies in Spanish

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
4910

Credit Hours

Credit Hours:
1

Credit Hours:
6

Other Hours

Min:
1

Max:
6

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: SPAN 3010 or equivalent or consent of instructor. Concentrated studies in areas of special interest. Available on an individual basis, with consent of departmental chairperson.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SPAN 3010 or equivalent or consent of instructor.

Course Information

Course Title
Senior Capstone

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
4920

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Consent of the Chair of the Foreign Language Department. Senior Standing required, normally taken during the last semester before graduation. Students will work individually, under the guidance of a faculty member, to create a portfolio and prepare a presentation to faculty and other students. In this course, students will enhance and demonstrate their cultural literacy, knowledge, and skills in the target language, integrating the three modes of communication: interpretive (listening and reading), presentational (speaking and writing), and interpersonal (listening, speaking, reading, and writing). Students' achievements will reflect a level of competency comparable to the Tennessee knowledge and skills goals as described below. This course is required for all foreign language majors, except for those students pursuing teaching licensure. They are required to take 4925: Teaching Licensure Senior Capstone.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of the Chair of the Foreign Language Department. Senior Standing required, normally taken during the last semester before graduation.

Course Information

Course Title
Teaching Licensure Sr Capstone

Academic Level (Course Level)
Undergraduate

Course Subject Code
SPAN

Course Number
4925

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Senior standing. Restricted to and required for all students pursuing a degree in Bachelor of Arts in French, German, or Spanish with SEED Licensure. This course is taken in the fall semester of the senior year. Exceptions must be approved by the Chair of the Department of Foreign Languages. In accordance with the School of Education, this course must be completed before entering teaching residency.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Senior Standing. Restricted to and required for all students pursuing a degree in Bachelor of Arts in Spanish with SEED Licensure. This course is taken in the fall semester of the senior year. Exceptions must be approved by the Chair of the Department of Foreign Languages. In accordance with the School of Education, this course must be completed before entering teaching residency.

History Department

Professors Dollar, Chairperson, Laningham; Associate Professors Hinton, Propes, T. Smith, Driggers; Assistant Professors Banton, Akehinmi, L. Smith; Instructor Davis

The broad liberal arts curriculum of the History Department offers students a traditional education and preparation for many different professions. The content courses in history, for example, require students to think analytically, conduct research, and to communicate effectively both in written and oral forms. These are highly adaptable skills. The department assists each student by providing career guidance in a professional orientation course. The department provides excellent preparation for traditional graduate study, exemplified by TTU history majors who have earned advanced degrees at outstanding graduate schools. Department graduates have also found considerable success at some of the nation's top law schools. Other graduates have secured careers in "Public History" (this includes work at museums, historical sites, state parks, battlefields, etc.) through not only coursework but our robust internship program.

Programs

APP-MIN - Appalachian Studies Minor

Program Overview

Program Long Title
Appalachian Studies Minor

College/School
Arts and Sciences

Department(s)
History

Requirements

Simple Requirements

Appalachian Studies Minor (15 credits)

Type
Completion Requirement

Required Course (3 cr.)

Complete ANY of the following Courses:

- HIST4110 - Appalachian History/Culture
  OR SOC4080 - Sociology of Appalachia

Select an additional 12 credits from the following:

- HIST 4110 - 4119 – Appalachian History and Culture series (*no prereqs*)
- SOC 4080 – Sociology of Appalachia (*prereq*- SOC 1010 or 1100 or consent of the instructor)
- HIST 3100 – Tennessee Topics (*no prereqs*)
- HIST 4442 – Cherokee History (*no prereqs*)
- ENG 4820 – Upper Cumberland Folklore (*prereq*- ENGL 1010 and ENGL 1020 and one course from among ENGL 2130 , ENGL 2230 , and ENGL 2330)
- ENG 4712 - African American Literature: Affrilachian Writers (*prereq*- ENGL 1010 and ENGL 1020 and one course from among ENGL 2130 , ENGL 2230 , and ENGL 2330)
- WFS 4993 – Special Topics in Biology: Great Smoky Mountains National Park (*no prereqs*)
- WFS 4993 – Special Topics in Malacology: Identification and Ecology of Southeastern Freshwater Mussels (*no prereqs*)
- LIST 4921-4929 - Special Topics: Appalachian Entrepreneurship
- HIST 4940 - History Internship I (*prereqs*- 12 hours of history courses)
- HIST 4941 – History Internship II (*prereqs*- HIST 4940)
- Appalachian-centric directed studies or one-time special topics courses, with consent of minor adviser (e.g., ESS, RELS, or MUS special topics that focus on Appalachia or the Upper Cumberland)

DH-MIN - Digital Humanities Minor

Program Overview

Program Long Title
Digital Humanities Minor

College/School
Arts and Sciences

Department(s)
History

Requirements

Simple Requirements

Digital Humanities Minor

Type
Completion Requirement

Required (6 Hours)

Complete ALL of the following Courses:

- DH2030 - Intro/Meth-Digital Humanities
- CSC2220 - Data Science & AI for Everyone

9 Hours from the Following Options:

Earn at least 9 credits from the following:

- ART2340 - Comp-Aided Drafting for Artist
- CSC3220 - Fundamentals of Data Science
- HIST3420 - Archives Mgmt & Research
- HIST3430 - Digital History
- GEOG4210 - Cartography
- GEOG4510 - Theory of GIS I
- GEOG4511 - Theory of GIS II
- MATH3070 - Statistical Methods I
- PC3750 - Ethics in the Professions
- POLS3000 - Data Analysis

ETHN-MIN - Race and Ethnic Studies Minor

Program Overview

Program Long Title
Race and Ethnic Studies Minor

College/School
Arts and Sciences

Department(s)
History

Requirements

Simple Requirements

Race and Ethnic Studies in the United States (US) Minor

Type
Completion Requirement

Core Courses

Complete ALL of the following Courses:

- HIST2070 - Intro-Race & Ethnic Studies
- HIST2060 - African American History
  OR HIST3910 - Intro./American Indian Studies
  OR HIST3390 - Civil Rights Mvmt History

Additional Hours

Earn at least 9 credits from the following:

- ENGL4712 - African American Literature
- ENGL4713 - Native American Literature
- HEC3100 - Cultural Competence/Profsnls (Inactive)
- HIST4390 - Topics: African Am Studies
- HIST4391 - Topics: African Am Studies
- HIST4392 - Topics: African Am Studies
- HIST4393 - Topics: African Am Studies
- HIST4394 - Topics: African Am Studies
- HIST4395 - Topics: African Am Studies
- HIST4396 - Topics: African Am Studies
- HIST4397 - Topics: African Am Studies
- HIST4398 - Topics: African Am Studies
- HIST4399 - Topics: African Am Studies
- HIST4440 - Native American Studies
- HIST4441 - Native American Studies
- HIST4442 - Native American Studies
- HIST4443 - Native American Studies
- HIST4444 - Native American Studies
- HIST4445 - Native American Studies
- HIST4446 - Native American Studies
- HIST4447 - Native American Studies
- HIST4448 - Native American Studies
- HIST4449 - Native American Studies
- MUS4110 - Hist & Lit of Jazz
- SOC4210 - Race/Ethnicity/Multicultural
- SOC4090 - Cross Cult Comm/Cult Diversity

Additional Comments:
Substitutions are possible (for example, to include any relevant "Special Topics" courses) but require the approval of the program administrator.

HIBA-BA - History, B.A.

Program Overview

Program Long Title
History, B.A.

College/School
Arts and Sciences

Department(s)
History

Requirements

Simple Requirements

History, B.A. (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Oral Communication
- Communication (GEDC) - Writing

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression (9 hours)

Earn at least 9 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

History, B.A. Core

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- HIST3410 - Intro to Historical Methods
- HIST2210 - Early Western Civilization
- HIST2220 - Modern Western Civilization

Additional Requirements:

HIST 4990 (Senior Seminar) - 3 cr.

HIST Upper Division Electives (15 hours) - choose from the following:

American History Upper Division courses include 3100, 3360, 3390, 3900, 3910, 4010-4310, 4340-4390, 44404449.

European History Upper Division courses include 3550, 3560, 3710, 4510-4690.

World History Upper Division include 3910, 4440-4449, 4620, 4710-4790, 4880.

Women and Gender Studies courses include 4350-4359, 4370 and 4380.

Race and Ethnicity in the US courses include 3390, 4380, and 4390-4399.

HIST Upper Division electives (9 cr.)

Additional Program Requirements

• **CJ, POLS, SOC, SW, PHIL, RELS or PSY (Upper Division)** Credit: 3.

• **ENGL, JOUR, LING, SPCH, THEA or WEBD (Upper Division**) Credit: 3.

Complete six hours (three hours from each group).

B.A. Foreign Language Requirement

History Major Foreign Language Requirement (12 hours):

FRENCH

12 Credits in FREN1010, FREN1020, FREN2010, and FREN2020

or

GERMAN

12 Credits in GERM1010, GERM1020, GERM2010, and GERM2020

or

SPANISH

12 Credits in SPAN1010, SPAN1020, SPAN2010, and SPAN2020

Foreign Language for the B.A. degree: Proficiency level in one language through the 2020 level.

Electives or Minor

Complete 25 hours in a minor or free electives.

Financial and Digital Literacy

Earn at least 4 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - History, B.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Foreign Language (Generic)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Foreign Language (Generic)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- HIST3410 - Intro to Historical Methods

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Foreign Language
  (Generic)

Actual Credits 3

Requirement Select
- HIST2210 - Early Western Civilization
  OR
- HIST2320 - Modern World History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Foreign Language
  (Generic)

Actual Credits 3

Requirement Select
- HIST2220 - Modern Western Civilization
  OR
- HIST2310 - Early World History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- American History (Upper Division)
  (Generic)

Actual Credits 3

Requirement Select
- European History (Upper Division)
  (Generic)

Actual Credits 3

Requirement Select
- ENGL, JOUR, LING, SPCH, THEA or WEBD (Upper Division)
  (Generic)

Actual Credits 3

Requirement Select
- Elective or minor
  (Generic)

Actual Credits 3

Requirement Select
- Women and Gender Studies - Upper Division (3 cr)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- CJ, POLS, SOC, SW, PHIL, RELS or PSY (Upper Division)
  (Generic)

Actual Credits 3

Requirement Select
- Elective or minor
  (Generic)

Actual Credits 6

Requirement Select
- Race and Ethnicity in the U.S. (Upper Division) - 3 cr.
  (Generic)

Actual Credits 3

Requirement Select
- World History (Upper Division) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Electives or minor (Generic)

Actual Credits 9

Requirement Select
- HIST4990 - Senior Seminar

Actual Credits 3

Requirement Select
- HIST (Upper Division) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- Electives or minor (Generic)

Actual Credits 7

Requirement Select
- HIST (Upper Division) (Generic)

Actual Credits 6

Requirement Select
- American History Upper Division courses include 3100, 3360, 3390, 3900, 3910, 4010-4310, 4340-4390, 44404449. European History Upper Division courses include 3550, 3560, 3710, 4510-4690. World History Upper Division include 3910, 4440-4449, 4620, 4710-4790, 4880. Women and Gender Studies courses include 4350-4359, 4370 and 4380. Race and Ethnicity in the US courses include 3390, 4380, and 4390-4399. (Generic)

Actual Credits -

HIBS-BS - History, B.S.

Program Overview

Program Long Title
History, B.S.

College/School
Arts and Sciences

Department(s)
History

Requirements

Simple Requirements

History, B.S. (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

History, B.S. Core

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History
- HIST3410 - Intro to Historical Methods
- HIST2210 - Early Western Civilization
  OR HIST2320 - Modern World History
- HIST2220 - Modern Western Civilization
  OR HIST2310 - Early World History

Additional Requirements:

HIST 4990-4999 (3 cr.)

HIST upper division electives (9 cr.): select 3 credits each from American, European and World History:

American History Upper Division courses include 3100, 3360, 3390, 3900, 3910, 4010-4310, 4340-4390, 44404449.

European History Upper Division courses include 3550, 3560, 3710, 4510-4690.

World History Upper Division include 3910, 4440-4449, 4620, 4710-4790, 4880

Additional Program Requirements

• CJ, POLS, SOC, SW, PHIL, RELS or PSY (Upper Division) Credit: 3.

• ENGL, JOUR, LING, SPCH, THEA or WEBD (Upper Division) Credit: 3.

Complete six hours (three hours from each group)

B.A. Foreign Language Requirement

History Major Foreign Language Requirement (8 credits)

2-3 credits in FREN, GERM, or SPAN (MATH 2110 may substitute for this requirement) **and**

3 credits in FREN, GERM, or SPAN (Math 1910 may substitute for this requirement) **and**

3 credits in FREN1020, GERM1020, or SPAN1020 (Math 1920 may substitute for this requirement)

Additional Program Requirements

Science - 15 hours

Complete 15 hours (with 8 hours in a Science Sequence from the same discipline)
Fifteen credit hours of Science with at least eight credit hours of General Education Natural Sciences courses completed in the same discipline. GEOL/GEOG may be used together as the same discipline. HIST 3900, HIST 4290 (5290), HIST 4810 (5810) or MATH 4610 (5610) may substitute for three of the 15 total credit hours.

Minor Requirements and Free Electives

Minor (15 hours) and free electives (9 hours)

Complete a minimum of 15 hours in a selected minor.
A minor is required for History, B.S. - minor must be declared with the Registrar's Office.

Additional free electives are required to complete 120 earned hours.

Flight Foundation Core - Financial or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Map - History, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	Fall	13

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Spring	16

Requirement Select
- Elective credit (3 credits) (Generic)

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- HIST3410 - Intro to Historical Methods

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Fall	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Foreign Language (3 credits)
  (Generic)
  OR
- MATH1910 - Calculus I

Actual Credits 3

Requirement Select
- HIST2210 - Early Western Civilization
  OR
- HIST2320 - Modern World History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring	15

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Foreign Language (3 credits)
  (Generic)
  OR
- MATH1920 - Calculus II

Actual Credits 3

Requirement Select
- HIST2220 - Modern Western Civilization
  OR
- HIST2310 - Early World History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Fall	15

Requirement Select
- American History (Upper Division) - 3 credits
  (Generic)

Actual Credits 3

Requirement Select
- European History (Upper Division) - 3 credits
  (Generic)

Actual Credits 3

Requirement Select
- Foreign Language (2-3 credits)
  (Generic)
  OR
- MATH2110 - Calculus III

Actual Credits 2

Requirement Select
- Minor (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- American History Upper Division courses include; 3100, 3360, 3390, 3900, 3910, 4010-4310, 4340-4390, 44404449. European History Upper Division courses include; 3550, 3560, 3710, 4510-4690.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Junior Year	Spring	15

Requirement Select
- World History (Upper Division) - 3 credits
  (Generic)

Actual Credits 3

Requirement Select
- CJ, POLS, SOC, SW, PHIL, RELS or PSY (Upper Division) elective - 3 credits
(Generic)

Actual Credits 3

Requirement Select
- ENGL, JOUR, LING, SPCH, THEA or WEBD (Upper Division) elective - 3 credits
(Generic)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 3

Requirement Select
- Minor (3 credits)
(Generic)

Actual Credits 3

Requirement Select
- World History Upper Division courses include; 3910, 4440-4449, 4620, 4710-4790.
(Generic)

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Fall	15

Requirement Select
- HIST 4990-4999 (3 cr.) - Senior Seminar
(Generic)

Actual Credits 3

Requirement Select
- HIST (Upper Division) elective (3 credits)
(Generic)

Actual Credits 3

Requirement Select
- Minor (Upper Division) - 3 credits
(Generic)

Actual Credits 3

Requirement Select
- Elective credit (6 credits)
(Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Spring	16

Requirement Select
- HIST (Upper Division) elective - 6 credits
(Generic)

Actual Credits 6

Requirement Select
- Minor (Upper Division) - 3 credits
(Generic)

Actual Credits 3

Requirement Select
- Elective credit (4 credits)
(Generic)

Actual Credits 4

Requirement Select
- Elective or Minor (3 credits)
(Generic)

Actual Credits 3

Requirement Select
- Fifteen credit hours of Science with at least eight credit hours of General Education Natural Sciences courses completed in the same discipline. GEOL/GEOG may be used together as the same discipline. HIST 3900, HIST 4290 (5290), HIST 4810 (5810) or MATH 4610 (5610) may substitute for three of the 15 total credit hours.
(Generic)

Actual Credits -

HIST-MIN - History Minor

Program Overview

Program Long Title
History Minor

College/School
Arts and Sciences

Department(s)
History

Requirements

Simple Requirements

Minor in History (HIST)

A History minor consists of 15 hours in HIST courses (six hours must be at the 3000-4000 level).

WGS-MIN - Women and Gender Studies Minor

Program Overview

Program Long Title
Women and Gender Studies Minor

College/School
Arts and Sciences

Department(s)
History

Requirements

Simple Requirements

Women's and Gender Studies (WGS) Minor

Type
Completion Requirement

Core Courses

A minor in Women and Gender Studies requires completion of WGS 2010 and a minimum of 12 additional credit hours of course work (including 6 upper division hours) in approved courses. A minimum of 6 credit hours must be chosen from the following core courses:

Earn at least 6 credits from the following:

- ENGL4731 - Approaches to Women & Lit
- HIST4350 - Gender Studies
- HIST4351 - Gender Studies
- HIST4352 - Gender Studies
- HIST4353 - Gender Studies
- HIST4354 - Female Bodies in Western Culture
- HIST4355 - Gender Studies
- HIST4356 - Gender Studies
- HIST4357 - Gender Studies
- HIST4358 - Gender Studies
- HIST4359 - Gender Studies
- HIST4370 - Women in American History
- POLS3400 - Gender and Politics
- SOC3200 - Sociology of Sex & Gender

Electives

Electives include additional core courses listed above or courses from the list below. Students may also individually contract with course instructor to emphasize women and/or gender issues through course content and/or course work. The WGS advisor may also approve additional courses as electives if the specific version of that course contains a significant focus on women and/or gender studies.

Earn at least 6 credits from the following:

- CJ4540 - Women and Crime
- HIST4401 - Film Studies
- HIST4440 - Native American Studies
- HIST4441 - Native American Studies
- HIST4442 - Native American Studies
- HIST4443 - Native American Studies
- HIST4444 - Native American Studies
- HIST4445 - Native American Studies
- HIST4446 - Native American Studies
- HIST4447 - Native American Studies
- HIST4448 - Native American Studies
- HIST4449 - Native American Studies
- HON4011 - Colloquium
- HON4012 - Colloquium
- HON4013 - Colloquium
- HON4021 - Directed Studies
- HON4022 - Directed Studies
- HON4023 - Directed Studies
- SOC2630 - Marriage & Family Relations
- SOC4210 - Race/Ethnicity/Multicultural
- SOC4610 - Contemporary Amer Family

HIST 4440-4449 (5440) - Native American Studies Credit: 3. (may be repeated if topic is different)

Note: No student will receive credit toward both the major and minor from the same course. Student contracts must be approved by the instructor before the last day to add classes.

Courses

Course Information

Course Title
Intro/Meth-Digital Humanities

Academic Level (Course Level)
Undergraduate

Course Subject Code
DH

Course Number
2030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An introduction to the interdisciplinary scholarship, theory, ethics, and practice of digital humanities.

College/School
Arts and Sciences

Course Information

Course Title
Science and World Cultures

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
1310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Survey of the development of scientific thought from the ancient world to the 20th century.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Intro to US History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
2000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An exploration of the chronology and major themes in U.S. History with special attention to geography and terminology, for students who have not completed one year of U.S. History in high school (including international students).

College/School
Arts and Sciences

Course Information

Course Title
Early United States History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Colonial heritage; Independence; Nationalism and Expansion; Rise of Democracy, Reform and Sectionalism; and Civil War and Reconstruction.

College/School
Arts and Sciences

Course Information

Course Title
Modern United States History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Industrialism and Urbanism; World Power; Reform; World War I and aftermath; New Deal; World War II; Prosperity; and the Cold War.

College/School
Arts and Sciences

Course Information

Course Title
History of Tennessee

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
2030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Survey of Tennessee history from the earliest settlement to the present.

College/School
Arts and Sciences

Course Information

Course Title
African American History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
2060

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Surveys U.S. history from the vantage point of African Americans.

College/School
Arts and Sciences

Course Information

Course Title
Intro-Race & Ethnic Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
2070

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An introduction to the academic study of race and ethnic groups in the United States.

College/School
Arts and Sciences

Course Information

Course Title
Early Western Civilization

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
2210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Classical Greece and Rome; transformation of the West during Middle Ages; Renaissance; Reformation; rise of national states; and expansion overseas.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Modern Western Civilization

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
2220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Enlightenment; French Revolution; Industrialism, Liberalism, Nationalism, Imperialism; World Wars; and Europe in mid-20th Century.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Early World History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
2310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Development of the human community from pre-history to the year 1500.

College/School
TN eCampus Degree

Course Information

Course Title
Modern World History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
2320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
World History since 1500, including the development of modern science, the rise of the nation-state, European hegemony, colonialism, and anti-colonialism.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Tennessee Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
3100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites for taking this course will be two of the following: HIST 2010, 2020, and 2030. Political, military, social, and cultural topics in Tennessee history.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Select two: HIST 2010, HIST 2020 or HIST 2030.

Course Information

Course Title
American Military History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
3360

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
U.S. military affairs, emphasizing war, role of officer corps, and relation of military to managerial, technological, and social change.

College/School
Arts and Sciences

Course Information

Course Title
Civil Rights Mvmt History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
3390

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers the role of African American communities and institutions in the history of the US Civil Rights Movement.

College/School
Arts and Sciences

Course Information

Course Title
Archives Mgmt & Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
3420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers theory, standards, and methods of archive management in a hands-on environment.

College/School
Arts and Sciences

Course Information

Course Title
Intro to Historical Methods

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
3410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to historical writing, criticism, methodology, and technical skills. Career information. Required of all history majors in their first semester.

College/School
Arts and Sciences

Course Information

Course Title
Digital History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
3430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduces students to the field of digital history with a particular focus on both theory and practice.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Permission required.

Course Information

Course Title
Ancient Greece and Rome

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
3550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Rise of ancient Greek culture and its transformation in the Hellenistic and Roman periods to the death of Justinian (565 A.D.).

College/School
Arts and Sciences

Course Information

Course Title
Survey of Spanish History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
3710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The political, economic and cultural development of Spain from the earliest time to the present.

College/School
Arts and Sciences

Course Information

Course Title
Survey of Mexican History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
3720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A survey of historical developments of Mexico.

College/School
Arts and Sciences

Course Information

Course Title
Environmental History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
3900

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The history of human impact on the North American environment and the resulting effects on society.

College/School
Arts and Sciences

Course Information

Course Title
Intro./American Indian Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
3910

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Provides an overview of Native American Indian history and culture.

College/School
Arts and Sciences

Course Information

Course Title
Colonial/Revolutionary Periods

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Early American Society; Revolutionary conflict; and the Confederation and Constitution.

College/School
Arts and Sciences

Course Information

Course Title
The Young Republic 1789-1849

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Political, military, social, and cultural history of the U.S., from the era of Washington through the "Age of Jackson" to the Mexican War.

College/School
Arts and Sciences

Course Information

Course Title
Civil War & Reconstruction

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Sectionalism and the coming war; war-time developments; and plans of reconstruction and their impact.

College/School
Arts and Sciences

Course Information

Course Title
Rise of Mod Am, 1877-1912

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4040

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Industrialism, urbanism, populism, reform, and their impact.

College/School
Arts and Sciences

Course Information

Course Title
Transform/Mod Am, 1912-1945

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Wilsonian reform, World War I, New Era, New Deal, World War II, with emphasis on changes in politics, the economy, and society.

College/School
Arts and Sciences

Course Information

Course Title
Postwar America, 1945-Present

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4060

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Cold War diplomacy and society, troubled Sixties, post-Watergate politics, and contemporary cultural, economic, and social changes.

College/School
Arts and Sciences

Course Information

Course Title
History of Comic Books

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4070

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers artistic and historical themes of comic books.

College/School
Arts and Sciences

20th Century US Popular Culture

Course Information

Course Title
20th Century US Pop Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4090

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is intended to serve as a survey of the popular culture of the 20th Century, beginning with the introduction of moving pictures in 1896 and ending in 1999. The course will examine all forms of popular culture from motion pictures, numerous musical genres, popular literature, radio, television, foodways, art, fashion, automotive culture, and fads such as hoola hoops and pet rocks. The course will contextualize the various expressions of popular culture, and analyze how they were affected by the politics and current events of the day.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4091

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues in popular culture.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4092

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues in popular culture.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4093

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues in popular culture.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4094

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues in popular culture.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4096

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues in popular culture.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4095

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues in popular culture.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4097

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues in popular culture.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4098

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues in popular culture.

College/School
Arts and Sciences

Course Information

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4099

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues in popular culture.

College/School
Arts and Sciences

Course Information

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4111

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia.

College/School
Arts and Sciences

Course Information

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4112

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia.

College/School
Arts and Sciences

Course Information

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4114

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia.

College/School
Arts and Sciences

Course Information

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4113

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia.

College/School
Arts and Sciences

Course Information

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4115

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia.

College/School
Arts and Sciences

Course Information

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4116

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia.

College/School
Arts and Sciences

Course Information

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4118

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia.

College/School
Arts and Sciences

Course Information

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4117

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia.

College/School
Arts and Sciences

Course Information

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4119

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia.

College/School
Arts and Sciences

Course Information

Course Title
The Old South

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course will focus upon the economic, cultural, educational, racial, and political developments in Southern society from its colonial beginnings to the Civil War and Reconstruction.

College/School
Arts and Sciences

Course Information

Course Title
The New South

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Southern life to the present, emphasizing economic, cultural, educational, racial, and political problems.

College/School
Arts and Sciences

Course Information

Course Title
Topics/US Economic History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Selected topics in U.S. economic history. A student may take HIST 4230 (5230) twice, provided the topic is different each time.

College/School
Arts and Sciences

Course Information

Course Title
Topics/US Economic History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4231

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in U.S. economic history.

College/School
Arts and Sciences

Course Information

Course Title
Topics/US Economic History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4232

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in U.S. economic history.

College/School
Arts and Sciences

Course Information

Course Title
Topics/US Economic History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4234

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in U.S. economic history.

College/School
Arts and Sciences

Course Information

Course Title
Topics/US Economic History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4233

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in U.S. economic history.

College/School
Arts and Sciences

Course Information

Course Title
Topics/US Economic History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4235

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in U.S. economic history.

College/School
Arts and Sciences

Course Information

Course Title
Topics/US Economic History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4236

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in U.S. economic history.

College/School
Arts and Sciences

Course Information

Course Title
Topics/US Economic History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4238

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in U.S. economic history.

College/School
Arts and Sciences

Course Information

Course Title
Topics/US Economic History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4237

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in U.S. economic history.

College/School
Arts and Sciences

Course Information

Course Title
Topics/US Economic History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4239

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in U.S. economic history.

College/School
Arts and Sciences

Course Information

Course Title
American Westward Movement

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The frontier experience in American history, with emphasis on the trans-Mississippi West.

College/School
Arts and Sciences

Course Information

Course Title
U S Diplomacy

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The background, origins, and developments of 20th century American foreign relations.

College/School
Arts and Sciences

Course Information

Course Title
Science, Technology in America

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4290

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Origins and development of science and technology in the U.S. from the colonial period to the present.

College/School
Arts and Sciences

Course Information

Course Title
Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4330

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in religious history.

College/School
Arts and Sciences

Course Information

Course Title
Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4331

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in religious history.

College/School
Arts and Sciences

Course Information

Course Title
Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4333

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in religious history.

College/School
Arts and Sciences

Course Information

Course Title
Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4332

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in religious history.

College/School
Arts and Sciences

Course Information

Course Title
Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4334

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in religious history.

College/School
Arts and Sciences

Course Information

Course Title
Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4335

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in religious history.

College/School
Arts and Sciences

Course Information

Course Title
Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4337

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in religious history.

College/School
Arts and Sciences

Course Information

Course Title
Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4336

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in religious history.

College/School
Arts and Sciences

Course Information

Course Title
Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4338

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in religious history.

College/School
Arts and Sciences

Course Information

Course Title
Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4339

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in religious history.

College/School
Arts and Sciences

Course Information

Course Title
Gender Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4350

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Selected topics in gender history. A student may take HIST 4350 (5350) twice, provided that the topic is different each time.

College/School
Arts and Sciences

Course Information

Course Title
Gender Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4351

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in gender history. A student may take HIST 4350 (5350) twice, provided that the topic is different each time.

College/School
Arts and Sciences

Course Information

Course Title
Gender Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4352

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in gender history. A student may take HIST 4350 (5350) twice, provided that the topic is different each time.

College/School
Arts and Sciences

Course Information

Course Title
Gender Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4353

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in gender history. A student may take HIST 4350 (5350) twice, provided that the topic is different each time.

College/School
Arts and Sciences

Female Bodies in Western Culture

Course Information

Course Title
Female Bodies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4354

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Considers the perception, manipulation, suppression, and symbolism of the female body in Europe, from antiquity to modernity.

College/School
Arts and Sciences

Course Information

Course Title
Gender Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4355

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in gender history. A student may take HIST 4350 (5350) twice, provided that the topic is different each time.

College/School
Arts and Sciences

Course Information

Course Title
Gender Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4356

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in gender history. A student may take HIST 4350 (5350) twice, provided that the topic is different each time.

College/School
Arts and Sciences

Course Information

Course Title
Gender Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4357

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in gender history. A student may take HIST 4350 (5350) twice, provided that the topic is different each time.

College/School
Arts and Sciences

Course Information

Course Title
Gender Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4359

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in gender history. A student may take HIST 4350 (5350) twice, provided that the topic is different each time.

College/School
Arts and Sciences

Course Information

Course Title
Gender Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4358

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in gender history. A student may take HIST 4350 (5350) twice, provided that the topic is different each time.

College/School
Arts and Sciences

Course Information

Course Title
U S Social History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4360

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in U.S. Social History, ranging from the Colonial period to the present.

College/School
Arts and Sciences

Course Information

Course Title
U S Social History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4361

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Lec. 3. Credit 3.Selected topics in U.S. Social History, ranging from the Colonial period to the present.

College/School
Arts and Sciences

Course Information

Course Title
U S Social History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4362

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Lec. 3. Credit 3.
Selected topics in U.S. Social History, ranging from the Colonial period to the present.

College/School
Arts and Sciences

Course Information

Course Title
U S Social History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4363

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Lec. 3. Credit 3.
Selected topics in U.S. Social History, ranging from the Colonial period to the present.

College/School
Arts and Sciences

Course Information

Course Title
U S Social History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4364

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Lec. 3. Credit 3.
Selected topics in U.S. Social History, ranging from the Colonial period to the present.

College/School
Arts and Sciences

Course Information

Course Title
U S Social History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4365

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Lec. 3. Credit 3.
Selected topics in U.S. Social History, ranging from the Colonial period to the present.

College/School
Arts and Sciences

Course Information

Course Title
U S Social History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4367

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Lec. 3. Credit 3.
Selected topics in U.S. Social History, ranging from the Colonial period to the present.

College/School
Arts and Sciences

Course Information

Course Title
U S Social History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4366

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Lec. 3. Credit 3.
Selected topics in U.S. Social History, ranging from the Colonial period to the present.

College/School
Arts and Sciences

Course Information

Course Title
U S Social History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4368

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Lec. 3. Credit 3.
Selected topics in U.S. Social History, ranging from the Colonial period to the present.

College/School
Arts and Sciences

Course Information

Course Title
U S Social History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4369

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Lec. 3. Credit 3.
Selected topics in U.S. Social History, ranging from the Colonial period to the present.

College/School
Arts and Sciences

Course Information

Course Title
Women in American History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4370

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Public and private experiences of women in the United States from the colonial period to the present.

College/School
Arts and Sciences

Course Information

Course Title
Black Women in US History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4380

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers the role of women of African descent in the history of the United States.

College/School
Arts and Sciences

Course Information

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4390

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in African American History.

College/School
Arts and Sciences

Course Information

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4391

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in African-American History.

College/School
Arts and Sciences

Course Information

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4393

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in African American History.

College/School
Arts and Sciences

Course Information

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4392

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in African American History.

College/School
Arts and Sciences

Course Information

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4394

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in African American History.

College/School
Arts and Sciences

Course Information

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4395

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in African American History.

College/School
Arts and Sciences

Course Information

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4397

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in African American History.

College/School
Arts and Sciences

Course Information

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4396

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in African American History.

College/School
Arts and Sciences

Course Information

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4398

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in African American History.

College/School
Arts and Sciences

Course Information

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4399

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in African American History.

College/School
Arts and Sciences

Course Information

Course Title
Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
2

Lab Hours

Min:
2

Course Description
Lec. 2. Lab. 2. Credit 3.Selected topics in the history of films.

College/School
Arts and Sciences

Course Information

Course Title
Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4401

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Lec. 2. Lab. 2. Credit 3.Selected topics in the history of films.

College/School
Arts and Sciences

Course Information

Course Title
Topics: Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4402

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Lec. 2. Lab. 2. Credit 3. Selected topics in the history of films.

College/School
Arts and Sciences

Course Information

Course Title
Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4403

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Lec. 2. Lab. 2. Credit 3.Selected topics in the history of films.

College/School
Arts and Sciences

Course Information

Course Title
Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4405

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Lec. 2. Lab. 2. Credit 3.Selected topics in the history of films.

College/School
Arts and Sciences

Course Information

Course Title
Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4404

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Lec. 2. Lab. 2. Credit 3.Selected topics in the history of films.

College/School
Arts and Sciences

Course Information

Course Title
Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4406

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Lec. 2. Lab. 2. Credit 3.Selected topics in the history of films.

College/School
Arts and Sciences

Course Information

Course Title
Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4407

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Lec. 2. Lab. 2. Credit 3.Selected topics in the history of films.

College/School
Arts and Sciences

Course Information

Course Title
Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4409

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Lec. 2. Lab. 2. Credit 3.Selected topics in the history of films.

College/School
Arts and Sciences

Course Information

Course Title
Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4408

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Lec. 2. Lab. 2. Credit 3.Selected topics in the history of films.

College/School
Arts and Sciences

Course Information

Course Title
Public History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduce history majors to possible careers in the field and give students practical, hands-on experience in the field of Public History.

College/School
Arts and Sciences

Course Information

Course Title
Native American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4440

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of the instructor. Selected topics in Native American history, ranging from the earliest times to the present.

College/School
Arts and Sciences

Course Information

Course Title
Native American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4442

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of the instructor. Selected topics in Native American history, ranging from the earliest times to the present.

College/School
Arts and Sciences

Course Information

Course Title
Native American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4441

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of the instructor. Selected topics in Native American history, ranging from the earliest times to the present.

College/School
Arts and Sciences

Course Information

Course Title
Native American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4443

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of the instructor. Selected topics in Native American history, ranging from the earliest times to the present.

College/School
Arts and Sciences

Course Information

Course Title
Native American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4444

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of the instructor. Selected topics in Native American history, ranging from the earliest times to the present.

College/School
Arts and Sciences

Course Information

Course Title
Native American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4446

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of the instructor. Selected topics in Native American history, ranging from the earliest times to the present.

College/School
Arts and Sciences

Course Information

Course Title
Native American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4445

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of the instructor. Selected topics in Native American history, ranging from the earliest times to the present.

College/School
Arts and Sciences

Course Information

Course Title
Native American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4447

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of the instructor. Selected topics in Native American history, ranging from the earliest times to the present.

College/School
Arts and Sciences

Course Information

Course Title
Native American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4448

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of the instructor. Selected topics in Native American history, ranging from the earliest times to the present.

College/School
Arts and Sciences

Course Information

Course Title
Native American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4449

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of the instructor. Selected topics in Native American history, ranging from the earliest times to the present.

College/School
Arts and Sciences

Course Information

Course Title
Sports Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4470

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in the history of sports.

College/School
Arts and Sciences

Course Information

Course Title
Sports Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4471

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in the history of sports.

College/School
Arts and Sciences

Course Information

Course Title
Sports Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4472

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in the history of sports.

College/School
Arts and Sciences

Course Information

Course Title
Sports Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4474

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in the history of sports.

College/School
Arts and Sciences

Course Information

Course Title
Sports Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4473

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in the history of sports.

College/School
Arts and Sciences

Course Information

Course Title
Sports Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4475

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in the history of sports.

College/School
Arts and Sciences

Course Information

Course Title
Sports Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4476

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in the history of sports.

College/School
Arts and Sciences

Course Information

Course Title
Sports Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4478

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in the history of sports.

College/School
Arts and Sciences

Course Information

Course Title
Sports Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4477

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in the history of sports.

College/School
Arts and Sciences

Course Information

Course Title
Sports Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4479

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in the history of sports.

College/School
Arts and Sciences

Course Information

Course Title
Medieval Europe

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Evolution of medieval culture from the fall of the Roman Empire to the 13th century and its dissolution during the late medieval period.

College/School
Arts and Sciences

Course Information

Course Title
Absolutism & Enlightenment

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4540

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Europe during 17th and 18th centuries; rise of centralized states; dynastic wars and rise of modern science; and Enlightenment thought.

College/School
Arts and Sciences

Course Information

Course Title
Renaissance & Reformation

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Europe during age of New Learning; Renaissance and Mannerist art; 16th century Reformation; and Wars of Religion.

College/School
Arts and Sciences

Course Information

Course Title
French Revolution & Napoleon

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Europe from 1789 to 1815, centering on events in France and political, diplomatic, and military history of the period.

College/School
Arts and Sciences

Course Information

Course Title
19th Century Europe

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4560

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
European politics, diplomacy, society, war, and institutions from 1815 through World War I.

College/School
Arts and Sciences

Course Information

Course Title
Russia

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Political, cultural, social, and military history from the Kievan period to the present.

College/School
Arts and Sciences

Course Information

Course Title
World War II & The Cold War

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4570

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Problems of European powers during inter-war years; background, causes, and results of World War II and Cold War.

College/School
Arts and Sciences

Course Information

Course Title
History of France

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers the historical develoment of France.

College/School
Arts and Sciences

Course Information

Course Title
History of Modern Germany

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4640

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
History of Modern Germany with an emphasis on the nineteenth and twentieth centuries.

College/School
Arts and Sciences

Course Information

Course Title
Modern England

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4660

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
England since the Glorious Revolution, with special emphasis on the 19th and 20th centuries.

College/School
Arts and Sciences

Course Information

Course Title
England to 1688

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4650

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Roman, Anglo-Saxon, and Medieval England; Tudor and Stuart Dynasties.

College/School
Arts and Sciences

Course Information

Course Title
World War I

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4665

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers World War I and its consequences within the political, social, and cultural contexts of European development since 1871.

College/School
Arts and Sciences

Course Information

Course Title
Nazi Germany

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4668

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers the developments relating to the Nazi era in German history.

College/School
Arts and Sciences

Course Information

Course Title
British Empire & Commonwealth

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4690

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Origin, development, and decline of the British Empire.

College/School
Arts and Sciences

Course Information

Course Title
The Holocaust

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4680

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers topics relating to the history of the Holocaust.

College/School
Arts and Sciences

Course Information

Course Title
History of Africa

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
History of Africa with an emphasis on the nineteenth and twentieth centuries.

College/School
Arts and Sciences

Course Information

Course Title
The Modern Middle East

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4730

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Consideration of the traditional cultural background of the region but with emphasis on the rapid changes experienced during the 20th century.

College/School
Arts and Sciences

Course Information

Course Title
History of China

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4750

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Early Chinese history followed by an emphasis on the 20th century revolutionary experience.

College/School
Arts and Sciences

Course Information

Course Title
History of Japan

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4740

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Early Japanese history followed by a comprehensive investigation of the 20th century experience.

College/School
Arts and Sciences

Course Information

Course Title
Vietnam: Its Wars & Aftermath

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4760

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Overview of Vietnam, the French experience, and the U.S. war and its impact on America, followed by developments since 1975.

College/School
Arts and Sciences

History of India and South Asia

Course Information

Course Title
History of India

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4770

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
A history of India from the Mughal Empire to modern day India, including contextual study in South Asian history including Pakistan, Sri Lanka, and Bangladesh.

College/School
Arts and Sciences

Syllabus
The History of India Syllabus Driggers 2.0 (1).docx

Course Information

Course Title
Latin American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4790

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in Latin American history.

College/School
Arts and Sciences

Course Information

Course Title
Latin American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4791

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in Latin American history.

College/School
Arts and Sciences

Course Information

Course Title
Latin American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4792

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in Latin American history.

College/School
Arts and Sciences

Course Information

Course Title
Latin American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4793

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in Latin American history.

College/School
Arts and Sciences

Course Information

Course Title
Latin American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4795

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in Latin American history.

College/School
Arts and Sciences

Course Information

Course Title
Latin American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4794

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in Latin American history.

College/School
Arts and Sciences

Course Information

Course Title
Latin American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4796

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in Latin American history.

College/School
Arts and Sciences

Course Information

Course Title
Latin American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4797

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in Latin American history.

College/School
Arts and Sciences

Course Information

Course Title
Latin American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4799

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in Latin American history.

College/School
Arts and Sciences

Course Information

Course Title
Latin American Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4798

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Selected topics in Latin American history.

College/School
Arts and Sciences

Course Information

Course Title
Scientific Controversies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Historical analysis of selected controversies in science and their impact within and outside the scientific community.

College/School
Arts and Sciences

Course Information

Course Title
History of Medicine

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4880

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers the history of medicine and the medical field.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Legal History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4882

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues relating to legal history.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Legal History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4881

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues relating to legal history.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Legal History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4883

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues relating to legal history.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Legal History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4884

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues relating to legal history.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Legal History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4886

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues relating to legal history.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Legal History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4885

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues relating to legal history.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Legal History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4887

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues relating to legal history.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Legal History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4888

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues relating to legal history.

College/School
Arts and Sciences

Course Information

Course Title
History of Nursing/Health Care

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4890

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues relating to the history of nursing and healthcare.

College/School
Arts and Sciences

Course Information

Course Title
Studies in Legal History

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4889

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Considers issues relating to legal history.

College/School
Arts and Sciences

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4900

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A formal course in any area where there is no other course offering.

College/School
Arts and Sciences

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4901

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A formal course in any area where there is no other course offering.

College/School
Arts and Sciences

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4903

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A formal course in any area where there is no other course offering.

College/School
Arts and Sciences

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4902

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A formal course in any area where there is no other course offering.

College/School
Arts and Sciences

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4904

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A formal course in any area where there is no other course offering.

College/School
Arts and Sciences

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4905

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A formal course in any area where there is no other course offering.

College/School
Arts and Sciences

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4907

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A formal course in any area where there is no other course offering.

College/School
Arts and Sciences

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4906

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A formal course in any area where there is no other course offering.

College/School
Arts and Sciences

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4908

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A formal course in any area where there is no other course offering.

College/School
Arts and Sciences

Course Information

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4909

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A formal course in any area where there is no other course offering.

College/School
Arts and Sciences

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4910

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Supervised research and reading in any area where there is no appropriate course offering. May be taken twice, provided the topic is different.

College/School
Arts and Sciences

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4911

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Supervised research and reading in any area where there is no appropriate course offering.

College/School
Arts and Sciences

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4912

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Supervised research and reading in any area where there is no appropriate course offering.

College/School
Arts and Sciences

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4913

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Supervised research and reading in any area where there is no appropriate course offering.

College/School
Arts and Sciences

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4915

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Supervised research and reading in any area where there is no appropriate course offering.

College/School
Arts and Sciences

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4914

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Supervised research and reading in any area where there is no appropriate course offering.

College/School
Arts and Sciences

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4916

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Supervised research and reading in any area where there is no appropriate course offering.

College/School
Arts and Sciences

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4917

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Supervised research and reading in any area where there is no appropriate course offering.

College/School
Arts and Sciences

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4919

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Supervised research and reading in any area where there is no appropriate course offering.

College/School
Arts and Sciences

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4918

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Supervised research and reading in any area where there is no appropriate course offering.

College/School
Arts and Sciences

Course Information

Course Title
History Internship I

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4940

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Twelve hours of history courses. Students develop specific skills in the research and/or the interpretation of history by working with archives, museums, historic sites, attorneys, and other relevelant professionals.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Twelve hours of History courses.

Course Information

Course Title
History Internship II

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4941

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: HIST 4940. Students develop specific skills in the research and/or the interpretation of history by working with archives, museums, historic sites, attorneys, and other relevant professionals. Students may not duplicate work in HIST 4940.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
HIST 4940.

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4990

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisites: HIST 3410 and junior or senior standing as a history major. Must be taken at TTU, no transfer credit allowed. Intensive experience in research, writing and oral presentation of a selected historical topic.

College/School
Arts and Sciences

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4991

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: HIST 3410 and junior or senior standing as a history major. Must be taken at TTU, no transfer credit allowed. Intensive experience in research, writing and oral presentation of a selected historical topic.

College/School
Arts and Sciences

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4992

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: HIST 3410 and junior or senior standing as a history major. Must be taken at TTU, no transfer credit allowed. Intensive experience in research, writing and oral presentation of a selected historical topic.

College/School
Arts and Sciences

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4993

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: HIST 3410 and junior or senior standing as a history major. Must be taken at TTU, no transfer credit allowed. Intensive experience in research, writing and oral presentation of a selected historical topic.

College/School
Arts and Sciences

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4995

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: HIST 3410 and junior or senior standing as a history major. Must be taken at TTU, no transfer credit allowed. Intensive experience in research, writing and oral presentation of a selected historical topic.

College/School
Arts and Sciences

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4994

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: HIST 3410 and junior or senior standing as a history major. Must be taken at TTU, no transfer credit allowed. Intensive experience in research, writing and oral presentation of a selected historical topic.

College/School
Arts and Sciences

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4996

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: HIST 3410 and junior or senior standing as a history major. Must be taken at TTU, no transfer credit allowed. Intensive experience in research, writing and oral presentation of a selected historical topic.

College/School
Arts and Sciences

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4997

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: HIST 3410 and junior or senior standing as a history major. Must be taken at TTU, no transfer credit allowed. Intensive experience in research, writing and oral presentation of a selected historical topic.

College/School
Arts and Sciences

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4999

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: HIST 3410 and junior or senior standing as a history major. Must be taken at TTU, no transfer credit allowed. Intensive experience in research, writing and oral presentation of a selected historical topic.

College/School
Arts and Sciences

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
HIST

Course Number
4998

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: HIST 3410 and junior or senior standing as a history major. Must be taken at TTU, no transfer credit allowed. Intensive experience in research, writing and oral presentation of a selected historical topic.

College/School
Arts and Sciences

Human Ecology Department

Professor Anderson, Director; Associate Professors Chitiyo, Hutson, Ramsey, Sisk and Upole; Lecturers Bell, Coutinho, Lynn and Gunnels; Experiential Learning Coordinator Buckner-Watts and Clinical Coordinator Wharton

The discipline of Human Ecology, also known as Family and Consumer Sciences, exists to enhance the quality of life for individuals, families and communities. The body of knowledge incorporates the integrative elements of human ecosystems and life course development. Inclusion of core concepts such as basic human needs, individual well-being, family strengths and community vitality prepare graduates to work with individuals and families using a holistic perspective. Understanding the influences both external and internal environments have on quality of life is the foundation of the discipline. Graduates find employment in a variety of settings including: health care, education, management, design, marketing/retailing, and human service professions.

Programs within the School are Accredited by:

- American Association of Family and Consumer Sciences
- Accreditation Council for Education in Nutrition and Dietetics
- National Association of Schools of Art and Design

Programs within the School are Approved by:

- The National Council on Family Relations has APPROVED the Human Development and Family Science concentration (HDFS)

The School of Human Ecology, Human Development and Family Science concentration has met the standards and criteria required for the Provisional Certified Family Life Educator (CFLE) designation from the National Council on Family Relations (NCFR).

Students who graduate from the School of Human Ecology HDFS curriculum (and have met all CFLE course requirements) qualify to complete an abbreviated CFLE application process.

This program approval does not imply accreditation, but recognizes the inclusion of relevant course work for each of the ten family life content areas needed for the Provisional Certified Family Life Educator designation.

Programs

CFTC-CER - Child and Family Trauma Informed Care Certificate

Program Overview

Program Long Title
Child and Family Trauma Informed Care Certificate

College/School
Agriculture and Human Ecology

Department(s)
Human Ecology

Requirements

Simple Requirements

Child and Family Trauma Informed Care Certificate (18 credits)

Type
Completion Requirement

Child and Family Trauma Informed Care (CFTC) Certificate

Curriculum

Required Courses (9 hours):

- HEC 2065 - Families in Society Credit: 3.
- HEC 4075 - Trauma Informed Care Credit: 3.
- HEC 4610 - Family Stress Management Credit: 3.

Choose three (9 credit hours):

- PSY 3040 - Positive Psychology: The Science of Wellbeing Credit: 3.
- HEC 3066 - Family Violence across the Lifespan Credit: 3.
- HEC 3525 - Parent-Child Relationships Credit: 3.
- LIST 3600 - Concepts of Caregiving Credit: 3 or
- PSY 4810 (5810) - Concepts of Gerontology Credit: 3 or
- PSY 4100 * - Child Psychology Credit: 3 or
- PSY 4130 * - Brain and Behavior Credit: 3

Note:

Students will be expected to successfully complete all courses with a grade of "C" or better in order to earn the certificate.

*Students must have already met the prerequisites for these classes.

DSGN-ARDS - Design Studies, Architecture and Interior Design Concentration, B.S.

Program Overview

Program Long Title
Design Studies, Architecture and Interior Design Concentration, B.S.

College/School
Agriculture and Human Ecology

Department(s)
Human Ecology

Requirements

Simple Requirements

Design Studies, Architecture and Interior Design Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Complete three hours from the Quantitative Reasoning & Analysis list.

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations.

Flight Foundation Core - Financial or Digital Literacy (3 hours)

Earn at least undefined credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Complete three hours from the approved Financial or Digital Literacy list.

Flight Foundation Core - Humanities Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Complete six hours from the approved Humanities and Cultural Expression list.

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Complete Six hours from the approved Social/Behavioral Sciences list.

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Complete eight hours from the approved Scientific Reasoning list.

Design Studies, Architecture and Interior Design Concentration

Type
Completion Requirement

Design Studies, Architecture and Interior Design Concentration Core

Complete ALL of the following Courses:
- HEC1040 - HEC 1040: Connections in Human Ecology and Design Studies
- HEC2041 - Aspects of the Built Environmt
- HEC2065 - Families in Society
- HEC1110 - Concepts of Design
- HEC1125 - Design Visualization Techn
- HEC2421 - Architectural Graph/Pres Techq
- HEC1150 - Analysis - Product Development
- HEC2440 - Comp Aided Design/Resid
- HEC2431 - Residential Design I
- HEC3431 - Residential Design II
- HEC3310 - Concepts of Textile Production
- HEC3350 - Business Aspects of Design Ind
- HEC2425 - Digital Design, Fabrication and Illustration
- HEC2435 - Environmental and Sustainable Design in Architecture and Interior Design
- HEC2411 - Practicum: Housing & Design
- HEC3316 - HEC 3316: Professionalism in Portfolio Design
- HEC3320 - Applications of Textiles
- HEC2460 - Intr Architecture Codes/Stndrs
- HEC3011 - Consumer Economics
- HEC3435 - Architectural Construction Materials, Methods and Assemblies
- HEC4340 - Clscl Hist: Archt, Furn, Dress
- HEC4990 - Internship
- HEC4315 - Global Social Sustainability
- HEC4450 - Commercial Design
- HEC4460 - Contmp Hist/Archt,Furnis,Dress

Additional Requirements:

Guided Electives (12 credits) - choose 12 hours taken from HEC 2445, 4360, 4320, 3360, 4326, 4960, 4900, 4990, AGET 3600, AGHT 3400, 3460, AGRN 2400, 3600, ART 1045, 1050, 1250, 2060, 2410, 2510, 2610, 2710,

2810, 2910, 3410, CEE 3340, 4340, COMM/JOUR 3030, JOUR 3270, ESS 4110, GEOG 1130, 2100, 3200, 3710, 4510, GEOL 1045, 1090, MATH 1710, 1730, 1910, 1920, PHYS 2010, 2109.

Degree Map

Degree Map Name
Degree Plan - Design Studies, Architecture and Interior Design Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- CHEM1010 - Introductory Chemistry I
  OR
- CHEM1020 - Introductory Chemistry II
  OR
- CHEM1110 - General Chemistry I
  OR
- CHEM1120 - General Chemistry II
  OR
- BIOL1010 - Introduction to Biology
  OR
- BIOL1020 - Diversity of Life
  OR
- BIOL1113 - General Biology I
  OR
- BIOL1123 - General Biology II
  OR
- BIOL1090 - Concepts of Biology

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- HEC1040 - HEC 1040: Connections in Human Ecology and Design Studies

Actual Credits 1

Requirement Select
- HEC1125 - Design Visualization Techn

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- CHEM1010 - Introductory Chemistry I
  OR
- CHEM1020 - Introductory Chemistry II
  OR
- CHEM1110 - General Chemistry I
  OR
- CHEM1120 - General Chemistry II
  OR
- BIOL1010 - Introduction to Biology
  OR
- BIOL1020 - Diversity of Life
  OR
- BIOL1113 - General Biology I
  OR
- BIOL1123 - General Biology II
  OR
- BIOL1090 - Concepts of Biology

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HEC2041 - Aspects of the Built Environmt

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- DSGN/Architecture and Interior Design -Guided Electives

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- HEC1110 - Concepts of Design

Actual Credits 3

Requirement Select
- HEC2065 - Families in Society

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HEC1150 - Analysis - Product Development

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- HEC2421 - Architectural Graph/Pres Techq

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- HEC2431 - Residential Design I

Actual Credits 3

Requirement Select
- HEC3310 - Concepts of Textile Production

Actual Credits 3

Requirement Select
- HEC2425 - Digital Design, Fabrication and Illustration

Actual Credits 3

Requirement Select
- HEC3350 - Business Aspects of Design Ind

Actual Credits 3

Requirement Select
- HEC2440 - Comp Aided Design/Resid

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- DSGN/Architecture and Interior Design -Guided Electives
  OR
- HEC2435 - Environmental and Sustainable Design in Architecture and Interior Design

Actual Credits 3

Requirement Select
- HEC2460 - Intr Architecture Codes/Stndrs

Actual Credits 2

Requirement Select
- HEC3320 - Applications of Textiles

Actual Credits 3

Requirement Select
- HEC3431 - Residential Design II

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- HEC2411 - Practicum: Housing & Design

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- HEC3011 - Consumer Economics

Actual Credits 3

Requirement Select
- HEC4340 - Clscl Hist: Archt, Furn, Dress
  OR
- HEC4460 - Contmp Hist/Archt,Furnis,Dress

Actual Credits 3

Requirement Select
- HEC3316 - HEC 3316: Professionalism in Portfolio Design

Actual Credits 3

Requirement Select
- HEC3435 - Architectural Construction Materials, Methods and Assemblies

Actual Credits 3

Requirement Select
- HEC4315 - Global Social Sustainability

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Guided Electives (Generic)

Actual Credits 6

Requirement Select
- HEC4450 - Commercial Design

Actual Credits 3

Requirement Select
- HEC4990 - Internship

Actual Credits 6

Requirement Select
- Guided Electives: HEC 2445, 4360, 4320, 3360, 4326, 4960, 4900, 4990, AGET 3600, AGHT 3400, 3460, AGRN 2400, 3600, ART 1045, 1050, 1250, 2060, 2410, 2510, 2610, 2710, 2810, 2910, 3410, CEE 3340, 4340, COMM/JOUR 3030, JOUR 3270, ESS 4110, GEOG 1130, 2100, 3200, 3710, 4510, GEOL 1045, 1090, MATH 1710, 1730, 1910, 1920, PHYS 2010, 2109. (Generic)

Actual Credits -

DSGN-FMDE - Design Studies, Fashion Merchandising and Design Concentration, B.S.

Program Overview

Program Long Title
Design Studies, Fashion Merchandising and Design Concentration, B.S.

College/School
Agriculture and Human Ecology

Department(s)
Human Ecology

Requirements

Simple Requirements

Design Studies, Fashion Merchandising and Design Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Complete 3 hours from the approved Financial Literacy or Digital Literacy list.

Flight Foundation Core - Humanities and/or Fine Arts (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Complete six hours from the approved Humanities and Cultural Expression list.

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Complete Six hours from the approved Social/Behavioral Sciences list.

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Complete eight hours from the approved Scientific Reasoning list.

Design Studies, Fashion Merchandising and Design Concentration

Type
Completion Requirement

Design Studies, Fashion Merchandising and Design Concentration Core

Complete ALL of the following Courses:

- HEC1110 - Concepts of Design
- HEC1040 - HEC 1040: Connections in Human Ecology and Design Studies
- HEC1150 - Analysis - Product Development
- HEC1125 - Design Visualization Techn
- HEC2065 - Families in Society
- HEC2355 - Clothing Construction
- HEC3310 - Concepts of Textile Production
- HEC3011 - Consumer Economics
- HEC2315 - Pract: Merchandising & Design
- HEC3316 - HEC 3316: Professionalism in Portfolio Design
- HEC3320 - Applications of Textiles
- HEC3350 - Business Aspects of Design Ind
- HEC2300 - Tailoring
  OR HEC3300 - Flat Pattern
  OR HEC4300 - Draping
  OR HEC4301 - Computer Aided Apparel Design
- HEC4326 - Spatial Design
- HEC4340 - Clscl Hist: Archt, Furn, Dress
- HEC4305 - Fashion Styling
- HEC4315 - Global Social Sustainability
- HEC4320 - Merchandise Promo & Advert
- HEC4360 - Retail Math Concepts
- HEC4390 - Fashion Event Production
- HEC4990 - Internship
- HEC2041 - Aspects of the Built Environmt
  OR HEC3360 - Rural Devlpmt/Service Lrning
  OR HEC4460 - Contmp Hist/Archt,Furnis,Dress
  OR ART1250 - Intro to Digital Imaging
  OR ART2610 - Introduction to Fibers
  OR BMGT3510 - Mgmt/Organizational Behavior

Guided Electives (9 credits) - choose 9 hours taken from HEC2041, HEC3360, HEC4460, HEC4360, ART1250, ART 2610, BMGT3510

Apparel Course (9 credits) - choose 9 hours from HEC2300, HEC3300, HEC4300, or HEC4301.

Additional Program Requirements

Earn at least 8 credits from the following:

- BIOL1010 - Introduction to Biology
- BIOL1020 - Diversity of Life
- BIOL1090 - Concepts of Biology (Inactive)
- BIOL1113 - General Biology I
- BIOL1123 - General Biology II
- CHEM1010 - Introductory Chemistry I
- CHEM1020 - Introductory Chemistry II
- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II

Choice of any two of the following for Scientific Foundations credit (8 hours): CHEM 1010, CHEM 1020, CHEM 1110, CHEM 1120, BIOL 1010, BIOL 1020, BIOL 1090, BIOL 1113, or BIOL 1123.

Degree Map

Degree Map Name
Degree Plan - Design Studies, Fashion Merchandising and Design Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- HEC1040 - HEC 1040: Connections in Human Ecology and Design Studies

Actual Credits 1

Requirement Select

- HEC1110 - Concepts of Design

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	13

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HEC1150 - Analysis - Product Development

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- HEC2065 - Families in Society

Actual Credits 3

Requirement Select
- HEC1125 - Design Visualization Techn

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- COMM2025 - Fundamentals of Communication

OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HEC2355 - Clothing Construction

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- DSGN/Fashion Merchandising and Design-Guided Electives

Actual Credits 3

Requirement Select
- HEC2315 - Pract: Merchandising & Design

Actual Credits 3

Requirement Select
- HEC3011 - Consumer Economics

Actual Credits 3

Requirement Select
- HEC3310 - Concepts of Textile Production

Actual Credits 3

Requirement Select
- HEC3350 - Business Aspects of Design Ind

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- DSGN/Fashion Merchandising and Design-Guided Electives

Actual Credits 3

Requirement Select
- DSGN/Fashion Merchandising and Design-Apparel Courses

Actual Credits 3

Requirement Select
- DSGN/Fashion Merchandising and Design-Guided Electives

Actual Credits 3

Requirement Select
- HEC3320 - Applications of Textiles

Actual Credits 3

Requirement Select
- DSGN/Fashion Merchandising and Design-Apparel Courses

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	18

Requirement Select
- DSGN/Fashion Merchandising and Design-Apparel Courses

Actual Credits 3

Requirement Select
- HEC3316 - HEC 3316: Professionalism in Portfolio Design

Actual Credits 3

Requirement Select
- HEC4340 - Clscl Hist: Archt, Furn, Dress

Actual Credits 3

Requirement Select
- HEC4326 - Spatial Design

Actual Credits 3

Requirement Select
- HEC4305 - Fashion Styling

Actual Credits 3

Requirement Select
- HEC4315 - Global Social Sustainability

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- HEC4320 - Merchandise Promo & Advert

Actual Credits 3

Requirement Select
- HEC4360 - Retail Math Concepts

Actual Credits 3

Requirement Select
- HEC4990 - Internship

Actual Credits 6

Requirement Select
- HEC4390 - Fashion Event Production

Actual Credits 3

Requirement Select
- Guided Electives: HEC 2041, ART 1250, JOUR 2200, ART 2610, BMGT 3510, HEC 4460, HEC 3360. Apparel Courses: HEC 2300, HEC 3300, HEC 4300 or HEC 4301. (Generic)

Actual Credits -

Requirement Select
- Note: Select any two of the following to complete the Scientific Reasoning requirement: CHEM 1010, CHEM 1020, CHEM 1110, CHEM 1120, BIOL 1010, BIOL 1020, BIOL 1090, BIOL 1113, or BIOL 1123. (Generic)

Actual Credits -

HEC-HDFS - Human Ecology, Human Development and Family Science Concentration, B.S.H.E.

Program Overview

Program Long Title
Human Ecology, Human Development and Family Science Concentration, B.S.H.E.

College/School
Agriculture and Human Ecology

Department(s)
Human Ecology

Requirements

Simple Requirements

Human Ecology, Human Development and Family Science Concentration (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundations Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundations Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of American History except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of American History for the deficiency.

Flight Foundations Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Complete six hours from the approved Humanities and Cultural Expressions list.

Flight Foundations Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Complete Six hours from the approved Social/Behavioral Sciences list.

Flight Foundations Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Flight Foundations Core - Financial or Digital Literacy (3-4 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Human Ecology, Human Development and Family Science Concentration

Type
Completion Requirement

Human Development and Family Science Concentration Core

Complete ALL of the following Courses:
- HEC1040 - HEC 1040: Connections in Human Ecology and Design Studies
- HEC2020 - Nutrition
- HEC2510 - Foundations of Play
- HEC2200 - Dev: Conception-Age 6
- HEC2510 - Foundations of Play
- HEC2065 - Families in Society
- HEC3100 - Cultural Competence/Profsnls (Inactive)
- HEC3011 - Consumer Economics
- HEC3645 - HEC 3645: Human Sexuality in Family Science
- HEC3500 - Middle Childhood/Adolescence
- HEC3525 - Parent-Child Relationships
- HEC3275 - Research in Family Sciences
- HEC3066 - Fam Violence Across Lifespan
- HEC3700 - Dev:Young Adulthood/Aging
- HEC4065 - Social Policy/Chldrn&Families
- HEC3660 - Interpersonal Relationships
- HEC4055 - Resilience in the Workplace
- HEC4075 - Trauma Informed Care
- HEC4600 - Theories/Fam Dev & Rltnships
- HEC4610 - Family Stress Management
- HEC4630 - Family Life Education
- HEC4910 - Internship-Human Dev/Fam Sci
- HEC3275 - Research in Family Sciences
  OR HEC2250 - Child Life: Theory & Practice
  OR HEC2550 - Children in Health Care
  OR HEC4315 - Global Social Sustainability
  OR SOC2840 - The Aged in Amer Society
  OR SOC3650 - Youth and Society
  OR SOC2630 - Marriage & Family Relations
  OR LIST2093 - Service Learning
  OR LIST3093 - Service Learning
  OR LIST3600 - Concepts of Caregiving
  OR LIST3620 - Substance Abuse and Caregiving
  OR LIST4050 - American Sign Language I
  OR SOC4000 - Substance Misuse, Addiction and Recovery
  OR JOUR2200 - Mass Comm/Changing Society

Guided Electives (9 cr.) from: HEC 3275, 2250, 2550, 4315, SOC 2630, 2840, 3650, 4000, SW 4000, LIST 2093, 3093, 3600, 3620, 4050, or 4710, or JOUR 2200.

Note: HEC 1040 is not required for students with more than 12 hours (if HEC 1040 is not completed, take an additional 1 credit hour to complete 120 earned hours).

Additional Program Requirements

Complete ALL of the following Courses:

- ECSP2400 - Children with Special Needs
- ECSP4300 - Assessment of Young Children
- PSY1030 - Introduction to Psychology
- SOC1010 - Intro to Sociology
- ART1035 - Introduction to Art
  OR MUS1030 - Music Appreciation

Additional Comments:
* The School of Human Ecology, Human Development and Family Science (HDFS) concentration has met the standards and criteria required for the Provisional Certified Family Life Educator (CFLE) designation from the National Council on Family Relations (NCFR). Beginning in Fall 2016, students who graduate from the School of Human Ecology HDFS curriculum (and have met all CFLE course requirements) now qualify to complete an abbreviated CFLE application process. This program approval does not imply accreditation, but recognizes the inclusion of relevant course work for each of the ten family life content areas needed for the Provisional Certified Family Life Educator designation.

Degree Map

Degree Map Name
Degree Plan - Human Ecology, Human Development and Family Science (HDFS) Concentration, B.S.H.E.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- ART1035 - Introduction to Art
  OR
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- HEC2020 - Nutrition

Actual Credits 3

Requirement Select
- HEC1040 - HEC 1040: Connections in Human Ecology and Design Studies

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- HEC/Human Development and Family Science - Guided Elective

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- HEC2200 - Dev: Conception-Age 6

Actual Credits 3

Requirement Select
- HEC/Human Development and Family Science - Guided Elective

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- HEC2065 - Families in Society

Actual Credits 3

Requirement Select
- HEC2510 - Foundations of Play

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- ECSP2400 - Children with Special Needs

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- HEC4075 - Trauma Informed Care

Actual Credits 3

Requirement Select
- HEC3011 - Consumer Economics

Actual Credits 3

Requirement Select
- HEC3500 - Middle Childhood/Adolescence

Actual Credits 3

Requirement Select
- HEC3525 - Parent-Child Relationships

Actual Credits 3

Requirement Select
- HEC4055 - Resilience in the Workplace

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- HEC3066 - Fam Violence Across Lifespan

Actual Credits 3

Requirement Select
- HEC3275 - Research in Family Sciences
  OR
- HEC/Human Development and Family Science - Guided Elective

Actual Credits 3

Requirement Select
- HEC4630 - Family Life Education

Actual Credits 3

Requirement Select
- HEC3700 - Dev:Young Adulthood/Aging

Actual Credits 3

Requirement Select
- HEC3645 - HEC 3645: Human Sexuality in Family Science

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- HEC3660 - Interpersonal Relationships

Actual Credits 3

Requirement Select
- HEC4100 - HEC 4100: Cross-Cultural Awareness for Professionals

Actual Credits 3

Requirement Select
- SOC4000 - Substance Misuse, Addiction and Recovery

Actual Credits 3

Requirement Select
- HEC4600 - Theories/Fam Dev & Rltnships

Actual Credits 3

Requirement Select
- HEC4610 - Family Stress Management

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select

- ECSP4300 - Assessment of Young Children

Actual Credits 3

Requirement Select

- HEC4065 - Social Policy/Chldrn&Families

Actual Credits 3

Requirement Select

- HEC4910 - Internship-Human Dev/Fam Sci

Actual Credits 6

Requirement Select

- The School of Human Ecology, Human Development and Family Science (HDFS) concentration has met the standards and criteria required for the Provisional Certified Family Life Educator (CFLE) designation from the National Council on Family Relations (NCFR). Beginning in Fall 2016, students who graduate from the School of Human Ecology HDFS curriculum (and have met all CFLE course requirements) now qualify to complete an abbreviated CFLE application process. This program approval does not imply accreditation, but recognizes the inclusion of relevant course work for each of the ten family life content areas needed for the Provisional Certified Family Life Educator designation.
  (Generic)

Actual Credits -

Requirement Select

- Note: HEC 1040 is not required for students with more than 12 hours (if HEC 1040 is not completed, take an additional 1 credit hour to complete 120 earned hours).
  (Generic)

Actual Credits -

Requirement Select

- Guided Electives (9 cr.) from: HEC 3275, 2250, 2550, 4315, SOC 2630, 2840, 3650, 4000, SW 4000, LIST 2093, 3093, 3600, 3620, 4050, or 4710, or JOUR 2200, or advisor approved PSY course based on availability..
  (Generic)

Actual Credits -

HEC-HDPD - Human Ecology, Nutrition and Dietetics Concentration, B.S.H.E.

Program Overview

Program Long Title

Human Ecology, Nutrition and Dietetics Concentration, B.S.H.E.

College/School

Agriculture and Human Ecology

Department(s)

Human Ecology

Requirements

Simple Requirements

Human Ecology, Nutrition and Dietetics Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial or Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Complete Six hours from the approved Social/Behavioral Sciences list.

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Complete eight hours from the approved Natural Sciences list.

Oral Communication (3 cr.)

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication

Human Ecology, Nutrition and Dietetics Concentration

Type
Completion Requirement

Nutrition and Dietetics Concentration Core

Complete ALL of the following Courses:

- HEC1040 - HEC 1040: Connections in Human Ecology and Design Studies
- HEC2065 - Families in Society
- HEC2020 - Nutrition
- HEC2240 - Food Preparation and Management
- HEC3290 - Nutrition Through Life Cycle
- HEC3215 - HEC 3215: Introduction to Nutrition Research and Scholarly Writing
- HEC3201 - Community Nutrition
- HEC3202 - Topics in Public Health and Community Nutrition
- HEC4055 - Resilience in the Workplace
- HEC3270 - Nutrition in Disease
- HEC3240 - Quantity Food Production
- HEC3212 - HEC 3212: Careers and Professional Preparation in Nutrition and Dietetics
- HEC4100 - HEC 4100: Cross-Cultural Awareness for Professionals
- HEC4200 - Advanced Nutrition Research
- HEC4271 - Medical Nutrition Therapy
- HEC4925 - Nutrition Counseling and Edu
- HEC3011 - Consumer Economics
- HEC4272 - Clinical Dietetics
- HEC4262 - Nutrition Apps/Community
- HEC4242 - Food Systems Administration
- HEC4945 - Sports/Human Perform Nutrition

Additional Program Requirements

BIOL2010 and BIOL2020 can be taken in place of BIOL2350.

Complete ALL of the following Courses:

- CHEM1010 - Introductory Chemistry I
- CHEM1020 - Introductory Chemistry II
- BIOL2350 - Intro Anatomy & Physiology
- NURS2600 - Communication in Health Care
- CHEM3005 - Elementary Organic Chemistry
- BIOL3230 - Health Science Microbiology
- CHEM4500 - Nutritional Biochemistry
- MATH1530 - Introductory Statistics
- ELECTIVE - Elective Credit

Take additional free electives (7 credits) to complete the required 120 earned hours.

Additional Comments:
Note: In order to become a Registered Dietitian/Nutritionist (RDN) and to practice as an RDN, the following steps must be completed: 1. After successful graduation from Tennessee Tech's DPD (Nutrition and Dietetics) program, gain acceptance and complete an accredited supervised practice program.

2. Effective January 1, 2024, the minimum degree requirement to be approved for eligibility for the registration exam for RDNs will change from a bachelors' degree to a graduate degree. All students will need to complete a graduate degree to sit for the credentialing exam, in addition to completing the supervised practice program.

3. Pass the national credentialing examination administered by the Commission on Dietetic Registration (CDR).

4. Obtain appropriate licensure in the state in which you will practice.

The Nutrition and Dietetics concentration is an accredited Didactic Program in Dietetics (DPD); which requires a mandatory enrollment policy. A total of 20 students will be enrolled each year at the junior level, and a total of 20 students will be enrolled each year at the senior level. Students should plan to apply for admission into upper division dietetics during the sophomore year. As part of the requirements for successfully completing the Didactic Program in Dietetics and to receive a Verification Statement: a minimum grade of C is required in all Science courses. See www.tntech.edu/hec for application details as well as the DPD Student Handbook.

Degree Map

Degree Map Name
Degree Plan - Human Ecology, Nutrition and Dietetics Concentration, B.S.H.E.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- CHEM1010 - Introductory Chemistry I

Actual Credits 4

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- HEC1040 - HEC 1040: Connections in Human Ecology and Design Studies

Actual Credits 1

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- CHEM1020 - Introductory Chemistry II

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HEC2065 - Families in Society

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	14

Requirement Select
- HEC2020 - Nutrition

Actual Credits 3

Requirement Select
- HEC2240 - Food Preparation and Management

Actual Credits 4

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- BIOL2350 - Intro Anatomy & Physiology

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- CHEM3005 - Elementary Organic Chemistry

Actual Credits 4

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- BIOL3230 - Health Science Microbiology

Actual Credits 4

Requirement Select
- HEC3201 - Community Nutrition

Actual Credits 3

Requirement Select
- HEC3290 - Nutrition Through Life Cycle

Actual Credits 3

Requirement Select
- HEC4055 - Resilience in the Workplace
  OR
- HECELEC - Human Ecology Elective

Actual Credits 3

Requirement Select
- HEC3215 - HEC 3215: Introduction to Nutrition Research and Scholarly Writing

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- HEC3212 - HEC 3212: Careers and Professional Preparation in Nutrition and Dietetics

Actual Credits 3

Requirement Select
- HEC3270 - Nutrition in Disease

Actual Credits 3

Requirement Select
- HEC3240 - Quantity Food Production

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 1

Requirement Select
- HEC3202 - Topics in Public Health and Community Nutrition

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- HEC4100 - HEC 4100: Cross-Cultural Awareness for Professionals

Actual Credits 3

Requirement Select
- HEC4200 - Advanced Nutrition Research

Actual Credits 3

Requirement Select
- HEC4271 - Medical Nutrition Therapy

Actual Credits 3

Requirement Select
- HEC4925 - Nutrition Counseling and Edu

Actual Credits 3

Requirement Select
- HEC3011 - Consumer Economics

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- HEC4242 - Food Systems Administration

Actual Credits 3

Requirement Select
- HEC4262 - Nutrition Apps/Community

Actual Credits 3

Requirement Select
- HEC4272 - Clinical Dietetics

Actual Credits 3

Requirement Select
- HEC4945 - Sports/Human Perform Nutrition

Actual Credits 3

Requirement Select
- CHEM4500 - Nutritional Biochemistry

Actual Credits 3

Requirement Select
- In order to become a Registered Dietitian/Nutritionist (RDN) and to practice as an RDN, the following steps must be completed: 1. After successful graduation from Tennessee Tech's DPD (Nutrition and Dietetics) program, gain acceptance and complete an accredited supervised practice program. 2. Effective January 1, 2024, the minimum degree requirement to be approved for eligibility for the registration exam for RDNs will change from a bachelors' degree to a graduate degree. All students will need to complete a graduate degree to sit for the credentialing exam, in addition to completing the supervised practice program. 3. Pass the national credentialing examination administered by the Commission on Dietetic Registration (CDR). 4. Obtain appropriate licensure in the state in which you will practice. The Nutrition and Dietetics concentration is an accredited Didactic Program in Dietetics (DPD); which requires a mandatory enrollment policy. A total of 20 students will be enrolled each year at the junior level, and a total of 20 students will be enrolled each year at the senior level. Students should plan to apply for admission into upper division dietetics during the sophomore year. As part of the requirements for successfully completing the Didactic Program in Dietetics and to receive a Verification Statement: a minimum grade of C is required in all Science courses. See www.tntech.edu/hec for application details as well as the DPD Student Handbook. (Generic)

Actual Credits -

HEC-MIN - Human Ecology Minor

Program Overview

Program Long Title
Human Ecology Minor

College/School
Agriculture and Human Ecology

Department(s)
Human Ecology

Requirements

Simple Requirements

Human Ecology Minor

Type
Completion Requirement

Human Ecology (HEC) Minor

The minor in Human Ecology consists of 15 semester hours of courses offered by the School of Human Ecology as follows:

Minor Requirements:

- HEC 1010 - Life Span Development Credit: 3. or

  PSY 2130 - Lifespan Development Credit: 3 or

  HEC 2065 - Families in Society Credit: 3.
- HEC 3011 - Consumer Economics Credit: 3.
- HEC Electives (3 hours must be upper division) Credit: 9.

HEHO-MIN - Housing and Design Minor

Program Overview

Program Long Title
Housing and Design Minor

College/School
Agriculture and Human Ecology

Department(s)
Human Ecology

Requirements

Simple Requirements

Housing and Design Minor

Type
Completion Requirement

Required: 15 Hours

Complete ALL of the following Courses:

- HEC2421 - Architectural Graph/Pres Techq
- HEC2431 - Residential Design I
- HEC2440 - Comp Aided Design/Resid
- HEC3431 - Residential Design II
- HEC4450 - Commercial Design

HEC 2421 - Architectural Graphics and Presentation Techniques Credit: 3. (Will waive the prerequisite of HEC 2041 for non-majors).

HEC 4450 - Commercial Design Credit: 3. (Will waive the prerequisite of COMM 2025 for non-majors).

PCL-CER - Pre-Child Life Certificate

Program Overview

Program Long Title
Pre-Child Life Certificate

College/School
Agriculture and Human Ecology

Department(s)
Human Ecology

Requirements

Simple Requirements

The Pre-Child Life Certificate will provide undergraduate students in the School of Human Ecology's Human Development and Family Science Concentration foundational courses to be best prepared to pursue a child life degree at the graduate level.

Proposed Courses: 18 Credit Hours

- HEC 2065: Families in Society (3cr)
- HEC 2215: HEC 2215: Child Development: Conception – Adolescence (3 cr)
- HEC 2250: Child Life Theory & Practice (3cr)
- HEC 2510: Foundations of Play (3cr)
- HEC 2550: Children in Healthcare (3cr)
- HEC 3275: Research in Family Science (3cr)

Degree Map

Degree Map Name
Pre-Child Life Certificate (18 credits)
Total Degree Map Credits
0
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative

The Pre-Child Life Certificate will provide undergraduate students in the School of Human Ecology's Human Development and Family Science Concentration foundational courses to be best prepared to pursue a child life degree at the graduate level.

Proposed Courses: 18 Credit Hours

- HEC 2065: Families in Society (3cr)
- HEC 2215: Child Development: Conception - Adolescence (3 cr)
- HEC 2250: Child Life Theory & Practice (3cr)
- HEC 2510: Foundations of Play (3cr)
- HEC 2550: Children in Healthcare (3cr)
- HEC 3275: Research in Family Science (3cr)

SMP-CER - Substance Misuse Prevention Specialist

Program Overview

Program Long Title
Substance Misuse Prevention Specialist

College/School
Agriculture and Human Ecology

Department(s)
Human Ecology

Requirements

Simple Requirements

Substance Misuse Prevention Specialist Certificate (18 hours):

- o SOC/SW 4000 Substance Misuse, Addiction, & Recovery (3 hours) and
- o HEC 3012 Coalitions & Community Organization in Substance Misuse Prevention (3 hours) and
- o HEC 3505 Prevention Planning & Evaluation in Substance Misuse (3 hours) and
- o HEC 3501 Prevention Science Practicum (3 hours)
- o HEC 3013 Substance Misuse Public Policy & Local Change (3 hours) or
- o HEC 3510 Community and Environmental Strategies (3 hours)

Degree Map

Degree Map Name
Substance Misuse Prevention Specialist Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2526 -

Year	Semester	Actual Credits
-	Fall	6

Requirement Select
- SOC4000 - Substance Misuse, Addiction and Recovery
OR
- SW4000 - Substance Misuse, Addiction and Recovery

Actual Credits 3

Requirement Select
- HEC3012 - HEC 3012: Coalitions and Community Organization in Substance Misuse Prevention

Actual Credits 3

Year	Semester	Actual Credits
-	Spring	9

Requirement Select
- HEC3505 - HEC 3505: Prevention Planning and Evaluation in Substance Misuse

Actual Credits 3

Requirement Select

- HEC3510 - HEC 3510: Community and Environmental Strategies

Actual Credits 3

Requirement Select

- HEC3013 - HEC 3012: Substance Misuse Prevention Policy and Local Change

Actual Credits 3

Year	Semester	Actual Credits
-	Fall	3

Requirement Select

- HEC3501 - Prevention Science Practicum

Actual Credits 3

Courses

HEC 1040: Connections in Human Ecology and Design Studies

Course Information

Course Title
Connect in HEC & Design Stu

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
1040

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
First year connections class for new freshmen. Promote connections between the University and School of Human Ecology to foster student success. Develop and apply academic success kills through a variety of learning activities.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Concepts of Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
1110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Exploration of how design elements and principles influence design, both theoretically and practically.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Design Visualization Techn

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
1125

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Application of visualization techniques for design purposes.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Analysis - Product Development

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
1150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 1110. Learn to work both individually and collaboratively to accomplish learning goals and a deeper understanding of the analysis of apparel and furnishings and the surrounding factors.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 1110.

Course Information

Course Title
Concepts of Health/Wellness

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2015

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Exploration of the impact of health and wellness as it affects personal behavior, social development, and quality of life for individuals, families and communities. Analysis of behavioral change theories regarding social context of individual human behavior and examination of current social and behavioral science research within the context of health and wellness.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Nutrition

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Completion of 15 credit hours. Principles of nutrition. Emphasis upon the function, food sources, recommended intake, and assimilation of each of the six nutrient classes.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Completion of 15 credit hours.

Course Information

Course Title
Enrichment and Success Skills

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2035

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Enrichment and success skills for students who are on academic warning, readmitted on probation or after suspension; or any student needing to improve academic skills.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Families in Society

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2065

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The family as a social system. Exploration of ecological systems perspective to understand family-community relationships, including emphasis on children with special needs. Identify globalization of societal trends affecting families.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Aspects of the Built Environmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2041

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Designed environment with emphasis on interior components of the house and the impact on individuals and families.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Dev: Conception-Age 6

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Basic principles and theories of child development from conception to age six, with emphasis on hereditary and environmental factors influencing development, and the importance of developmentally appropriate practices. Course includes approximately 8-10 hours of case study with a child below the age of six.

College/School
Agriculture and Human Ecology

Child Development: Conception-Adolescence

Course Information

Course Title
Ch. Dev. Concep. to Adol.

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2215

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course explores child development from conception through adolescence, examining major theories, biological processes, and developmental milestones across all domains of development.

College/School
Agriculture and Human Ecology

Syllabus
HEC 2215 - Syllabus.docx

Food Preparation and Management

Course Information

Course Title
Food Prep and Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2240

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
4

Repeatable for Credit:
No

Course Description
Prerequisite or corequisite: HEC 2020. Scientific principles of food preparation and management including standard techniques, nutrient retention, menu planning, food purchasing, and meal service.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2020.

Prerequisite or corequisite:
HEC 2020

Course Information

Course Title
Child Life: Theory & Practice

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to the field of child life, the role of the Certified Child Life Specialist with children and families, theoretical foundations, professional practice, overview of Association of Child Life Professionals, certification eligibility requirements and process.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Tailoring

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2300

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: HEC 2355. Evaluation and use of tailoring techniques in the selection, fitting, and construction of garments.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2355.

Course Information

Course Title
Pract: Merchandising & Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2315

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Supervised work experience in a design-industry setting.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Departmental approval.

Course Information

Course Title
Clothing Construction

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2355

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisites: Minimum grade of C in HEC 1100 and HEC 1150. Theories of apparel construction, principles of fitting, and their application to garment construction.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Minimum grade of C in HEC 1100 and HEC 1150.

Course Information

Course Title
Practicum: Housing & Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2411

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Departmental approval. Applied service learning and work experience in a housing and design setting.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Departmental approval.

Course Information

Course Title
Architectural Graph/Pres Techq

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2421

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: HEC 2041. Basic architectural drafting including graphics and symbols for residential floor plans and light construction.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2041.

Digital Design, Fabrication and Illustration

Course Information

Course Title
Dig Des, Fab & Illustration

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2425

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
This course introduces students to the principles and practices of digital design, fabrication, and illustration as applied to architecture, fashion, and interior design. The course emphasizes the integration of technology into the design process, preparing students to effectively use digital tools to conceptualize, develop, and present innovative design solutions.

College/School
Agriculture and Human Ecology

Syllabus
HEC 2425 - Digital Design, Fabrication Technology, and Illustration.docx

Requisites and Restrictions

Prerequisite:
C or better in HEC 1125.

Course Information

Course Title
Residential Design I

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2431

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: Grade of C or better in HEC 2421. Fundamental execution of residential design problems including perspectives, floor plans, and renderings using both hand and computer techniques.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Grade of C or better in HEC 2421.

Environmental and Sustainable Design in Architecture and Interior Design

Course Information

Course Title
Envir Sus Des/Arch/Int Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2435

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course examines the principles and practices of environmental and sustainable design in architecture and interior design. Exploration of the impact of the built environment on ecosystems, human health, and resource consumption. Sustainable design strategies, techniques, materials, and technologies that minimize environmental footprints, enhance user well-being, and building performance will be emphasized.

College/School
Agriculture and Human Ecology

Syllabus
HEC 2435 - Environmental and Sustainable Design in Architecture and Interior Design.docx

Requisites and Restrictions

Prerequisite:
C or better in HEC 2041.

Course Information

Course Title
Comp Aided Design/Resid

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2440

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: HEC 2421. An introduction to concepts and methods of computer-aided design in residences.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2421.

Finishes, Furniture & Lighting Design

Course Information

Course Title
Fin, Furn/Lighting Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2445

Credit Hours

Credit Hours:
3

Repeatable for Credit:
No

Course Description
This course explores the principles and applications of finishes, furniture, and lighting in interior and architectural design. Analysis of various materials, products, and systems to create functional, aesthetically pleasing, and sustainable environments. The course focuses on how finishes and lighting influence spatial perception, comfort, and energy use, and how furniture design integrates with overall interior space.

College/School
Agriculture and Human Ecology

Syllabus
HEC 2445 - Finishes, Furniture, and Lighting Design.docx

Requisites and Restrictions

Prerequisite:
C or better in HEC 2041.

Course Information

Course Title
Intr Architecture Codes/Stndrs

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2460

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: HEC 2421. Survey of interior architecture codes and standards including their application and implementation as required by law.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2421.

Course Information

Course Title
Foundations of Play

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2510

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisite: HEC 2200. This course introduces key theories of play and examines its role in development, creativity, and social interaction. Students will explore play across developmental stages, cultures, genders, and abilities, including adaptive practices.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2200.

Course Information

Course Title
Children in Health Care

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
2550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Explore children and families' experiences and reactions to healthcare encounters. Meeting children and families psychosocial needs during healthcare experiences.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Consumer Economics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3011

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Management of individual and family resources with emphasis on the production, allocation and consumption of goods and services.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Note:

- Meets Tennessee Technological University Flight Foundations requirement (Financial and Digital Literacy).

HEC 3012: Coalitions and Community Organization in Substance Misuse Prevention

Course Information

Course Title
Coalitions and Comm Org

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3012

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course provides an in-depth understanding of the role and functioning of coalitions in preventing substance misuse. It covers theoretical frameworks, practical strategies, and the importance of community involvement and cross-sector collaboration. The course is part of the Prevention Specialist Certificate program.

College/School
Agriculture and Human Ecology

Syllabus
HEC 3012.docx

HEC 3012: Substance Misuse Prevention Policy and Local Change

Course Information

Course Title
Subs Misuse Prev Policy/Change

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3013

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course explores the intersection of public policy and local efforts to prevent substance misuse. It examines how policies are developed, implemented, and evaluated at various governmental levels, and the role of local communities in influencing and responding to these policies. The course is part of the Prevention Specialist Certificate program.

College/School
Agriculture and Human Ecology

Syllabus
HEC 3013 .docx

Course Information

Course Title
Prof. in the Workplace

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3025

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Prerequisite: Minimum sophomore standing. Review of social and professional standards of behavior appropriate to the work place and community settings.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Minimum sophomore standing.

Course Information

Course Title
Fam Violence Across Lifespan

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3066

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 2065, Junior or Senior Standing. May not take concurrently with HEC 2065. A comprehensive review of family violence, abuse and maltreatment across the lifespan using a systems/ecological perspective.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2065 and Junior or Senior Standing. May not take concurrently with HEC 2065.

Trauma Informed Care

Course Information

Course Title
Trauma Informed Care

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3075

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course explores types of trauma and implications on both human and brain development; with an emphasis on parenting and supporting children who have experienced trauma. Course content covers the importance of trauma informed responses by professionals to individuals and families.

College/School
Agriculture and Human Ecology

Syllabus
HEC 3075 - Syllabus.docx

Course Information

Course Title
Community Nutrition

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3201

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: HEC 2020, HEC 2240, Junior Standing, Human Ecology major. Cultural food patterns; nutrition education assessment, implementation, and evaluation of community needs at the local level; and the study of delivery systems of nutrition services at the local, state, federal, and international levels.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2020, HEC 2240, Junior Standing, Human Ecology major.

Topics in Public Health and Community Nutrition

Course Information

Course Title
Public Health & Comm Nutrition

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3202

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: HEC 3201. Evaluation of community nutrition and public health needs and application of nutrition education practices. Emphasis on nutrition policy at the state and federal levels. This course is designed to provide advanced knowledge in community nutrition programs and systems and to prepare students to demonstrate competence in planning nutrition programs at the community level for various audiences. This course meets KRDN 2.9 and 3.6 from the ACEND 2022 Core Knowledge Requirements for Didactic Programs in Dietetics (DPD).

College/School
Agriculture and Human Ecology

Syllabus
HEC 3202 Topics in Public Health.docx

Requisites and Restrictions

Prerequisite:
HEC 3201

Careers in Nutrition and Dietetics

Course Information

Course Title
Careers in Nutrition/Dietetics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3210

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
Prerequisites: HEC 2020 and Department Approval. Career opportunities in nutrition and dietetics. Roles and responsibilities of Registered Dietitian/ Nutritionists. Current issues in professionalism. Routes to professional memberships.

College/School
Agriculture and Human Ecology

HEC 3212: Careers and Professional Preparation in Nutrition and Dietetics

Course Information

Course Title
Careers Prof Prep Nutr/Diet

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3212

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Career opportunities in nutrition and dietetics. Roles and responsibilities of Registered Dietitian/Nutritionists. Current issues in professionalism. Routes to professional memberships. Preparation of supervised practice applications and supporting documents.

College/School
Agriculture and Human Ecology

Syllabus
HEC 3212 NEW.docx

HEC 3215: Introduction to Nutrition Research and Scholarly Writing

Course Information

Course Title
Intro to Nutr Res/Sch Writing

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3215

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: HEC 2240. Introduction to nutrition research, including research methodologies, interpretation of current professional literature, code of ethics in research, utilizing nutrition research resources and databases, and writing and presenting research. Emphasis on aspects of scholarly writing.

College/School
Agriculture and Human Ecology

Syllabus
HEC 3215 Intro to Nutrition Research.docx

Course Information

Course Title
Quantity Food Production

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3240

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
8

Course Description
Prerequisite: HEC 2240, three credit hours of math. Management and preparation of quality food in quantity, menu planning, recipe standardization, procurement, safety, sanitation, and food costing.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2240 and three semester hours of math.

Course Information

Course Title
Nutrition in Disease

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3270

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: Grade of C or better in HEC 2020, and BIOL 2350, and admission to the HEC-DPD program. Principles of clinical nutrition relative to prevention and treatment of disease with dietary modifications.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Grade of C or better in HEC 2020 and BIOL 2350 and admission to the HEC-DPD program.

Course Information

Course Title
Research in Family Sciences

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3275

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior or Senior Standing. Comprehensive overview of research methodologies, ethics in research, and research presentation techniques. Review of research trends influencing Family and Consumer Sciences.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Junior or Senior Standing.

Course Information

Course Title
Nutrition Through Life Cycle

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3290

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: HEC 2020. Nutrition needs throughout the life cycle, from preconception through the end of life. Review of nutrient and energy needs, assessment of nutritional status and consequences of inadequate nutrition at each stage of life.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2020

Course Information

Course Title
Flat Pattern

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3300

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: HEC 2355. Apparel design from sketching to pattern making to garment completion.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2355.

Course Information

Course Title
Concepts of Textile Production

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3310

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisite: Grade of C or better in MATH 1010 or MATH 1530. Fibers, yarns, fabrics, finishes, and applied design related to the selection, evaluation, use and care of textile products.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Grade of C or better in MATH 1010 or MATH 1530.

Course Information

Course Title
Portfolio Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3315

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Exploration of methods to prepare a portfolio comprised of completed design works, both theoretical and practical. Evaluation and demonstration of portfolio presentation methods, including aspects of professionalism, based on the student's specific area of study.

College/School
Agriculture and Human Ecology

HEC 3316: Professionalism in Portfolio Design

Course Information

Course Title
Professionalism /Portfolio

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3316

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Exploration of physical and digital methods to prepare a portfolio comprised of completed design works, both theoretical and practical. This content will be evaluated and demonstrated through a variety of portfolio presentation methods, including aspects of professionalism, based on the student's specific area of study.

College/School
Agriculture and Human Ecology

Syllabus
HEC 3316 - Syllabus .docx

Course Information

Course Title
Applications of Textiles

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3320

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisite: Grade of C or better in HEC 3310. Problems involving fiber and fabric identification, textile performance, end-use and care, legislation and standardization in the textile/apparel industry.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Grade of C or better in HEC 3310.

Course Information

Course Title
Business Aspects of Design Ind

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3350

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: HEC 1150. Introduction to the merchandising of apparel and home furnishing products.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 1150.

Course Information

Course Title
Rural Devlpmt/Service Lrning

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3360

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Department approval. Minimum overall GPA 2.5. Junior or Senior Standing. Service Learning experiences in a variety of professional settings. Emphasis on rural development in communities related to design and the built environment.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Department approval. Minimum overall GPA 2.5. Junior or Senior Standing. Service Learning experiences in a variety of professional settings.

Course Information

Course Title
Residential Design II

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3431

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: Grade of C or better in HEC 2431. Space planning of residences with emphasis on presentations through floor plans, elevations, perspectives, and sample boards.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Grade of C or better in HEC 2431.

Architectural Construction Materials, Methods and Assemblies

Course Information

Course Title
Arch Construc Mat/Meth/Assem

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3435

Credit Hours

Credit Hours:
3

Repeatable for Credit:
No

Course Description
This course provides an in-depth exploration of the materials, construction methods, and building assemblies commonly used in architecture and construction. Students will examine the properties, performance, and applications of materials such as wood, steel, concrete, and sustainable alternatives. The course also covers building systems, structural assemblies, and the integration of construction methods into design practices. Emphasis will be placed on understanding the relationship between material selection, construction techniques, and building performance, with a focus on efficiency, durability, and sustainability in the built environment.

College/School
Agriculture and Human Ecology

Syllabus
HEC 3435 - Architectural Construction Materials, Methods, and Assemblies.docx

Requisites and Restrictions

Prerequisite:
C or better in HEC 2041.

Course Information

Course Title
Middle Childhood/Adolescence

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite of Junior or Senior classification. May not take concurrently with HEC 1010 or HEC 2200. Principles of physical, cognitive, and psychosocial development in middle childhood and adolescence; ages six through eighteen. Exploration of factors that contribute to challenges in middle childhood and adolescent development.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Junior or Senior classification. May not take concurrently with HEC 1010 or HEC 2200.

Course Information

Course Title
Prevention Science Practicum

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3501

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
Supervised practical experience in a variety of professional settings.

College/School
Agriculture and Human Ecology

Syllabus
HEC 3501 .docx

HEC 3505: Prevention Planning and Evaluation in Substance Misuse

Course Information

Course Title
Prev Planning/Eval Subs Misuse

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3505

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course provides a comprehensive overview of the planning and evaluation processes in substance misuse prevention. It covers the development of prevention programs, strategic planning, implementation, and evaluation methods. The course is part of the Prevention Specialist Certificate program.

College/School
Agriculture and Human Ecology

Syllabus
HEC 3505.docx

HEC 3510: Community and Environmental Strategies

Course Information

Course Title
Community & Environmental Stra

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Exploring community and environmental changes in communities regarding substance abuse by utilizing assessment data, the strategic prevention framework, community coalitions, and policy change.

College/School
Agriculture and Human Ecology

Syllabus
HEC 3510 .docx

Course Information

Course Title
Parent-Child Relationships

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3525

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Parental involvement in the teaching, influence, and guidance of children and adolescents, including the changing nature, dynamics, and needs of parent and child relationships throughout the lifespan.

Prerequisite should be: HEC 2200 with a grade of C or better

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 1010 or HEC 2200 with a grade of C or better.

Course Information

Course Title
Child Life Assmnt/Chldrn-Fam

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 2250, HEC 2550. Child Life assessment techniques for children and families in healthcare including groups of children, signs of stress, and documentation of assessment.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2250 and HEC 2550.

Course Information

Course Title
Child LIfe Intrvntion Strtgies

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3560

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisite: Grade of C or higher in HEC 3550. Child Life clinical and play interventions to meet the needs of children andfamilies during health care experiences.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Grade of C or higher in HEC 3550.

Course Information

Course Title
Loss/Bereavment-Chldrn & Fam

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3565

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 2065 and HEC 1010 or HEC 2200; Junior or Senior Standing. May not take concurrently with HEC 2065 and HEC 2200. Topics including loss, death, grief, and bereavement with focused application on children and families. Developmentally based psychosocial care provision will be integrated.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2065 and HEC 1010 or HEC 2200; Junior or Senior Standing.

Course Information

Course Title
Child LIfe Practicum

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3570

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Grade of B or higher in HEC 3560 and a 3.0 minimum overall GPA. Applied service learning experience with children and families in a healthcare setting. Child Life clinical and play interventions to meet the needs of children and families during healthcare experiences.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Child Life Clinical Prep

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3590

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Corequisite: HEC 3550 Preparation for child life practicum and clinical experience including application deadlines and process, on-site or phone interviews, content areas to discuss, and communicating for success in earning a service learning placement in a pediatric health care setting. Emphasis on internship and practicum expectations set by Child Life Council.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Intro-Child Life Clinical Exp

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3591

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Corequisite: HEC 3550. Preparation for child life practicum and clinical experience including application deadlines and process, on-site or phone interviews, content areas to discuss, and communicating for success in earning a service learning placement in a pediatric health care setting. Emphasis on internship and practicum expectations set by Child Life Council.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Corequisite:
HEC 3550.

HEC 3645: Human Sexuality in Family Science

Course Information

Course Title
Human Sexuality in FS

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3645

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Welcome to Human Sexuality in Family Science. This course was designed to cover the component of Human Sexuality Across the Lifespan as required by the Certified Family Life Educational credential through the National Council on Family Relations (NCFR).

College/School
Agriculture and Human Ecology

Syllabus
HEC 3645.docx

Course Information

Course Title
Interpersonal Relationships

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3660

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 2065 and Junior or Senior Standing. May not take concurrently with HEC 2065. An in-depth exploration into the diverse and multidisciplinary field of interpersonal relationships.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2065 and Junior or Senior Standing. May not take concurrently with HEC 2065.

Course Information

Course Title
Dev:Young Adulthood/Aging

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
3700

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC major/Junior or Senior Classification. Development from young adulthood through aging and programs serving adults and the aging population.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC Major, Junior or Senior classification.

Course Information

Course Title
Resilience in the Workplace

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4055

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Integrating resilience and adaptability for success in the workplace, exploring the value of health and wellbeing, concepts of nurturing a self-care mindset.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Junior or Senior Standing.

Course Information

Course Title
Social Policy/Chldrn&Families

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4065

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 2065 and Junior or Senior Standing. May not take concurrently with HEC 2065. An understanding of the legal issues, policies and laws influencing the well-being of children and families.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2065 and Junior or Senior Standing. May not take concurrently with HEC 2065.

Course Information

Course Title
Trauma Informed Care

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4075

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Exploring types of trauma and implications on both human and brain development; with an emphasis on parenting and supporting children who have experienced trauma. Importance of trauma informed responses by professionals to individuals and families.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Junior or Senior Standing.

Cross-Cultural Awareness for Professionals

Course Information

Course Title
Cross-Cultural Awareness/Prof.

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: HEC 2065 and Junior or Senior standing. Exploration of how individual and group differences - both visible and less apparent - shape personal interactions and workplace dynamics. Examination of factors that influence perception, behavior, and decision-making, and evaluate how these factors can affect professional environments. Emphasis is placed on developing awareness to support effective collaboration in diverse settings.

College/School
Agriculture and Human Ecology

HEC 4100: Cross-Cultural Awareness for Professionals

Course Information

Course Title
Cross-Cultural Awareness/Prof.

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course examines bias across dimensions like race, gender, ability, mental health, and socioeconomic status. Students will explore the mechanisms and societal impacts of bias, focusing on the intersections of visible and invisible differences to foster a more empowering environment.

College/School
Agriculture and Human Ecology

Syllabus
HEC 4100and5100Syllabus.docx

Course Information

Course Title
Advanced Nutrition Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisites: HEC 2020, CHEM 3005, and BIOL 2350, and admission to the HEC-DPD program. Principles of nutrition research, including research design and methodology, analysis of peer-reviewed research, effective scholarly writing, standards of responsible and ethical research, and understanding how research impacts evidence-based practice.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2020, CHEM 3005, BIOL 2350 and admission to the HEC-DPD program.

Course Information

Course Title
Food Systems Administration

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4242

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: HEC 2240 and HEC 3240. Systems approach to food service management; facilities, financial, personnel, equipment, and legal issues in food service.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2240 and HEC 3240.

Course Information

Course Title
Nutrition Apps/Community

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4262

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: HEC 3201, HEC 4271 and Senior Standing. Application of nutrition skills in a variety of community-based settings.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 3201, HEC 4271 and Senior Standing.

Course Information

Course Title
Medical Nutrition Therapy

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4271

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 3270. Prerequisite or corequisite: HEC 4200. Medical nutrition therapy and nutritional status assessment.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 3270.

Prerequisite or corequisite:
HEC 4200.

Course Information

Course Title
Clinical Dietetics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4272

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: HEC 4200, HEC 4271, HEC major, and senior standing. Application of medical nutrition therapy in a supervised environment and practice setting.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 4200, HEC 4271, HEC Major and Senior Standing.

Course Information

Course Title
Draping

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4300

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisites: HEC 2355 and Instructor approval. Discovery and application of draping techniques for apparel design and pattern making.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2355 and instructor approval.

Course Information

Course Title
Computer Aided Apparel Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4301

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisites: HEC 2355 and Instructor approval. Development and application of garment design and construction techniques using CAD software.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2355 and instructor approval.

Course Information

Course Title
Fashion Styling

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4305

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: HEC 3350 Minimum grade of D; may not be taken concurrently. Analysis of manners in which fashion, the body, and dress can be transformed to meet individual, environmental, and promotional needs. Exploration of fashion styling as it relates to individual clothing choices, editorial photoshoots, stage presence, and other promotional aspects of fashion styling. Application of these concepts through experiential learning opportunities.

College/School
Agriculture and Human Ecology

Syllabus
HEC 4305 Syllabus NEW.docx

Course Information

Course Title
Global Social Sustainability

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4315

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introspective examination of current issues of social responsibility in a global economy, with an emphasis placed on fair labor practices, child labor laws, and sustainability.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Merchandise Promo & Advert

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 3350. Communication of product information through special promotions and advertisements.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 3350.

Course Information

Course Title
Sustainable Apparel

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4325

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisites: HEC 2355 or Consent of Instructor. Design and construction of sustainable apparel and textile products with focus on sustainability, construction techniques, designers, and manufacturers of sustainable textile products.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 1110, Human Ecology major, Junior or Senior Standing.

Course Information

Course Title
Spatial Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4326

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisites: HEC 1110, Human Ecology major, Junior or Senior Standing. Application of spatial design in the lived environment.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2355 or consent of instructor.

Course Information

Course Title
Clscl Hist: Archt, Furn, Dress

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4340

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 1150. Study of the forms and functions of architecture, furnishings and dress from ancient times to present day.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 1150.

Course Information

Course Title
Retail Math Concepts

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4360

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: HEC 3350 and MATH 1010. Principles of merchandising including merchandise planning and decision making. Emphasis on the role of the buyer in case studies.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 3350 and MATH 1010.

Course Information

Course Title
Fashion Event Production

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4390

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Welcome to HEC 4390 – Fashion Event Production! In this course, we will analyze the ways in which promotion, advertising, styling, public relations, event production, and event management intersect, in the planning of the Spring 20252026 Senior Fashion Show. We will also cover aspects of professionalism, ranging from appropriate correspondence with vendors, to development of objectives, to successful event production. We will also cover aspects of professional development, including discussion of internships and searching for entry-level job positions in the Fashion Merchandising & Design industry. We will engage in a variety of hands-on practical experiences in planning and production, leading to a culminating final project in the Spring 20252026 Senior Fashion Show.

College/School
Agriculture and Human Ecology

Syllabus
HEC 4390 - Syllabus.docx

Course Information

Course Title
Commercial Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4450

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: Three credits in Math, COMM 2025, HEC 2440, and grade of C or better in HEC 3431. Various media for planning and rendering interior spaces for the commercial environment. Portfolio preparation and visual developmental skills are attained. Submission of resume and portfolio.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Three credits in Math, COMM 2025, HEC 2440, and grade of C or better in HEC 3431.

Course Information

Course Title
Contmp Hist/Archt,Furnis,Dress

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4460

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 2041. Overview of architecture, interior design, and furnishings from Ancient Egyptian period to present.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2041.

Course Information

Course Title
Rsrch Mthd & Prf Aspct-Chld Lf

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 3560. Professionalism, program development including administration, research methods appropriate to child life clinical practice, and various roles of supervision within the field of Child Life in preparation for a Child Life internship and the national certification exam.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 3560.

Course Information

Course Title
Child Life Clinical Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4590

Credit Hours

Credit Hours:
12

Other Hours

Min:
12

Course Description
Prerequisites: Senior standing; HEC 3570; HEC 4550, Minimum 3.0 GPA overall and 3.0 GPA in HEC major.. Supervised clinical (internship) experience in a health care facility to develop clinical child life skills. Direct supervision by a Certified Child Life Specialist in good standing with and meeting supervisor qualifications of the Association of Child Life Professionals is required. In order to meet the Association of Child Life Professionals' eligibility requirements to sit for the Child Life Certification Exam, the child life clinical experience must be a minimum of 600 hours.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Theories/Fam Dev & Rltnships

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC major/Junior or Senior Classification. Development, relationships, and influencing factors in the eight stages of the family life cycle and diversity of family contexts in contemporary society.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC Major/Junior or Senior classification.

Course Information

Course Title
Family Stress Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: HEC 2065 and Junior or senior standing; May not take concurrently with HEC 2065. In depth study of family stress and effective coping mechanisms that relate to normative transitions and crisis events.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Junior or Senior standing; HEC 2065. May not take concurrently with HEC 2065

Course Information

Course Title
Family Life Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: HEC 2065 and Junior or Senior Standing. May not take concurrently with HEC 2065. An understanding of the general philosophy and broad principles of family life education in conjunction with the ability to plan, implement, and evaluate such educational programs.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2065; Junior or Senior Standing in Human Ecology. May not take concurrently with HEC 2065

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4900

Credit Hours

Credit Hours:
0

Credit Hours:
7

Lecture Hours

Min:
0

Max:
7

Repeatable for Credit:
Yes

Course Description
Prerequisite: Departmental approval. Research in contemporary developments in human ecology. May be repeated. Maximum seven hours.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Departmental approval.

Course Information

Course Title
Internship-Human Dev/Fam Sci

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4910

Credit Hours

Credit Hours:
4

Credit Hours:
12

Other Hours

Min:
4

Max:
12

Operator:
TO

Course Description
Prerequisite: Department approval.Supervised practical experience in a variety of professional settings.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Department approval. Minimum Overall GPA 2.75. Minimum overall GPA of 3.0 in Human Ecology courses. Approval of advisor to include: analysis of coursework, application, and placement at facility.

Course Information

Course Title
Study Tour

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4920

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Study and observation of consumer services and product industries. May be repeated.

College/School
Agriculture and Human Ecology

Course Information

Course Title
Nutrition Counseling and Edu

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4925

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: HEC 3270, HEC 2020. Identification and application of key communication principles used for nutrition counseling and education in a variety of settings and for diverse populations.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 2020, HEC 3270.

Course Information

Course Title
Sports/Human Perform Nutrition

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4945

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: HEC 3270 or EXPW 4440. Principles and applications of sports nutrition strategies to optimize sports performance.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
HEC 3270 or EXPW 4440.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4960

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Special study of an approved topic (area) within Human Ecology under the supervision of a member of the human ecology faculty. Up to six credit hours may be earned by independent study.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
HEC

Course Number
4990

Credit Hours

Credit Hours:
3

Credit Hours:
12

Other Hours

Min:
3

Max:
12

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisites: Departmental approval; Minimum Overall GPA 2.5; Minimum grade of B in upper division Human Ecology courses. Supervised practical experience in a variety of professional settings.

College/School
Agriculture and Human Ecology

Requisites and Restrictions

Prerequisite:
Human Ecology major, departmental approval.

Interdisciplinary Studies Department

Mike Gotcher, Dean, College of Emerging and Integrative Studies

Departments and Programs

- Department of Communication
- School of Environmental Studies
- School of Interdisciplinary Studies
- School of Professional Studies
- Student Success Center

- TN eCampus (Formerly RODP and ROCC)

Mission and Scope

The College of Emerging and Integrative Studies provides a framework for supporting innovative boundary-crossing inquiry among students and faculty. To this end, the College of Emerging and Integrative Studies supports the efforts of existing cross-disciplinary programs and envisions new programs and opportunities for research, scholarship, and service.

School of Interdisciplinary Studies

Dr. Steven Frye, Director/Professor; Dr. Ann Manginelli, Associate Professor; Mr. Brett Koch, Instructor in American Sign Language

The School of Interdisciplinary Studies is committed to providing university students with a flexible, personalized major that allows each student the opportunity to pursue his or her individual interests. The goal is for students to think creatively, integrate knowledge and skills from a variety of disciplines, and build critical thinking skills.

A major in Interdisciplinary Studies brings together two emphasis areas into an integrated and personalized program of study. Emphasis areas are chosen from among the variety of content areas offered at TTU. Students can customize a course of study that reflects a cross-disciplinary perspective. Examples include (but are not limited to): Business and Health Science, Biology and Chemistry, Religious Studies and History, Event Planning and Business, Art and Psychology, Workplace Leadership and Human Behavior, Environmental Management and Art, Waste Resources and Soil, Wildlife and Fisheries and Criminal Justice, Informatics and Psychology, the degree options are vast. In their last semester, each I.S. major completes a culminating project where the two emphasis areas are brought together in an extensive research thesis or real-world project. This capstone experience offers the opportunity to draw from and integrate the knowledge gained in both emphasis areas.

What can you do with a major in Interdisciplinary Studies? The most appropriate answer to that question may be "What can't you do with a major in Interdisciplinary Studies?" The flexibility to pursue individual interest areas allows students the opportunity to fine-tune their education to match the knowledge and skill set needed in a variety of fields.

Student Success Center

Tammy Keylon, Director/Advisor
Advisors: Lisa Brown, Ashlee Kiser

Mission statement: To provide students, especially non-traditional students, quality advisement and serve as a gateway to the University. The Student Success Center will act as a student's liaison to the University, answering their questions and acting as a representative on the student's behalf for the College of Emerging and Integrative Studies.

The Student Success Center is the initial point of contact for students who are majoring in an undergraduate program offered through the College of Emerging and Integrative Studies. The SSC offers one-on-one advisement to discuss career goals and explore program options in order to develop a plan of study. The SSC provides information on registration as well as the general education requirements and the academic regulations to complete a Bachelor of Science degree at Tennessee Tech University.

The Bachelor of Science degree in Interdisciplinary Studies requires 41 credit hours of general education courses (English composition, Literature, Oral Communications, American History, Social and Behavioral Science, Humanities, Mathematics, and Natural Science) and 45 credit hours of upper-division courses (3000-4000 level) with at least 12 credit hours at the 4000 level. The remaining hours, 34 credit hours of any level elective credit, meet the total requirement of 120 credit hours. Transfer students may transfer up to 70 credit hours from a 2-year community college. At least 50 credit hours must completed at a 4-year school and at least 30 hours completed at TTU with 24 hours at the 3000-4000 level. Students must meet the Undergraduate Degree Requirements at Tennessee Tech University.

Programs

CARE-MIN - Caregiving Minor

Program Overview

Program Long Title
Caregiving Minor

College/School
Emerging and Integrative Studies

Department(s)
Interdisciplinary Studies

Requirements

Simple Requirements

Caregiving Minor

Type
Completion Requirement

Caregiving (CARE) Minor

The School of Interdisciplinary Studies, in partnership with School of Human Ecology and Religious Studies, offers a minor in Caregiving requiring 15 hours in the following courses (12 hours of which must be upper division 3000/4000):

Earn at least 15 credits from the following:

- LIST3600 - Concepts of Caregiving
- LIST3610 - Aging, Home Safety, Equip Use
- LIST3620 - Substance Abuse and Caregiving
- LIST4600 - Advanced Caregiving
- RELS3600 - Rel Perspec: Aging/End of Life
- HEC2065 - Families in Society
- HEC3565 - Loss/Bereavment-Chldrn & Fam
- HEC3100 - Cultural Competence/Profsnls (Inactive)
- HEC4610 - Family Stress Management

IC-BS - Interdisciplinary Computing, B.S.

Program Overview

Program Long Title
Interdisciplinary Computing, B.S.

College/School
Emerging and Integrative Studies

Department(s)
Interdisciplinary Studies

Requirements

No Requirements

Degree Map

Degree Map Name
Interdisciplinary Computing, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	Fall	13

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- IC1020 - IC 1020: Connections to Interdisciplinary Computing

Actual Credits 1

Requirement Select
- CSC1380 - Algorithmic Thinking I

Actual Credits 3

Requirement Select
- MATH1830 - Applied Calculus
  OR
- MATH1845 - Technical Calculus
  OR
- MATH1904 - Extended Calculus IA
  OR
- MATH1910 - Calculus I

Actual Credits 3

Requirement Select
- IC1200 - IC 1200: Introduction to Interdisciplinary Computing

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Spring	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- IC2200 - Technology, Society, & Ethics

Actual Credits 3

Requirement Select
- CSC1390 - Algorithmic Thinking II

Actual Credits 4

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Fall	16

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- CSC 2380 - Software Development (4 cr.) (Generic)

Actual Credits 4

Requirement Select
- CSC2220 - Data Science & AI for Everyone

Actual Credits 3

Requirement Select
- IC 2300 - Design Thinking (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Cognate Area I (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring	15

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- CSC2700 - Discrete Structures for CSC

Actual Credits 3

Requirement Select
- LIST3100 - Critical Thnk/Problem Solv

Actual Credits 3

Requirement Select
- Cognate Area II (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Fall	15

Requirement Select
- LIST 3310 - Entrepreneurship (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- CSC2510 - Intro to DevOps with Unix

Actual Credits 3

Requirement Select
- CSC 3380 - Introduction to UX/UI (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Cognate Area III (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring	17

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Cognate Area IV (3 cr.) - 3000-4000 level
  (Generic)

Actual Credits 3

Requirement Select
- IC 3100 - Cognate Computing Studio I (4 cr.)
  (Generic)

Actual Credits 4

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	Fall	15

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- CSC 3390 - Data Management and Analysis (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Cognate Area V (3 cr.) - 3000-4000 level
  (Generic)

Actual Credits 3

Requirement Select
- IC 4100 - Cognate Computing Studio II (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- LIST4710 - Workplace Conflict/Resolution

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	12

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select

- IC 4200 - Cognate Computing Studio III (3 cr.) (Generic)

Actual Credits 3

INEN-CER - Innovation and Entrepreneurship Certificate

Program Overview

Program Long Title

Innovation and Entrepreneurship Certificate

College/School

Emerging and Integrative Studies

Department(s)

Interdisciplinary Studies

Requirements

Simple Requirements

Innovation and Entrepreneurship (INEN) Certificate

Type
Completion Requirement

Innovation and Entrpreneurship Certificate

3 credit hours from:

- ART 4411, 4412, 4413, 4414 (painting) ART 4511, 4512, 4513, 4514 (clay) ART 4611, 4612, 4613, 4614 (Fibers) ART 4711, 4712, 4713, 4714 (Glass) ART 4811, 4812, 4813, 4814 (Metals ART 4911, 4912, 4913, 4914 (Wood) Senior Thesis BMGT 4930 (5930) - Business Strategy Credit: 3. ME 4420 - Senior Design Project II Credit: 3. CHE 4990 - Undergraduate Research Credit: 1 to 3 per semester. Maximum 12. CHEM 4970 (5970) - Special Topics Credit: 1-4. CHE 4245 - Clinical Immersion Credit: 3. NURS 4240 - Clinical Immersion at Disciplinary Interfaces Credit: 3. NURS 4300 - Research in Health Care Credit: 3. NURS 4981 - Independent Study Credit: 1.

6 credit hours from:

- ART 3099 - Professional Practices for the Artist Credit: 3. BMGT 4900 - Special Topics in Management Credit: 1-3. CHE 4410 - Process Design I Credit: 3. ENTR 4500 - Innovation and Entrepreneurship: Lean Launchpad Credit: 3. LIST 4901 – Special Topics LIST 4902 – Special Topics LIST 4903 – Special Topics MKT 3200 - Entrepreneurial Mindset Credit: 3. MKT 3900 - Entrepreneurship/Small Business Credit: 3. NURS 3240 - Pharmacological Concepts in Nursing I Credit: 3. NURS 4100 - Nursing Care of Children Credit: 3. NURS 4300 - Research in Health Care Credit: 3.

6 credit hours equivalent:

- "EAGLEWorks" Entrepreneurship and Innovation Competition Active participation in research and presentation Research day at the Capitol, Poster Day at the Capitol Active participation in research and presentation at TTU Student Research Day Participation in a multi-disciplinary team competition at a national level sponsored by a Professional Society.

Note:

*Student should enroll in LIST – 3900 Innovation and Entrepreneurship Studies (0 credit) to indicate enrollment in the I&E Certificate program.
*Student should enroll in LIST – 3901 Innovation and Entrepreneurship Studies (0 credit) to indicate completion of the I&E Certificate program.

LDSP-MIN - Leadership Minor

Program Overview

Program Long Title
Leadership Minor

College/School
Emerging and Integrative Studies

Department(s)
Interdisciplinary Studies

Requirements

Simple Requirements

Leadership Minor

Type
Completion Requirement

Leadership (LDSP) Minor

The School of Interdisciplinary Studies in partnerships with the School of Agriculture, the Department of Communication, the Department of English, and the College of Business offer a minor in Leadership which requires 15 hours in the following:

- AGED 3010 - Professional Leadership Development
- AGHE 3000 - (WSL2) Leadership and Service
- BMGT 4520 (5520) - Organizational Leadership
- COMM 3030 - Principles of Event Planning
- COMM 3080 - Communication and Effective Team Work
- JOUR 3460 - Introduction to Public Relations
- LIST 3500 - Non Profit Leadership
- LIST 3093 - Service Learning
- LIST 4093 - Special Topics
- LIST 4440-4449 - Workshop
- LIST 4710 - Workplace Conflict and Resolution or BMGT 4410 (5410) - Conflict Management and Negotiation
- LIST 4920-4929 - Special Topics PC 3750 - Ethics in the Professions
- PC 4990 - Business and Grant Proposal Writing

LIST-BS - Interdisciplinary Studies, B.S.

Program Overview

Program Long Title
Interdisciplinary Studies, B.S.

College/School
Emerging and Integrative Studies

Department(s)
Interdisciplinary Studies

Degree Map

Degree Map Name
Degree Plan - Interdisciplinary Studies, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Elective (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Flexible elective Flight Foundations (4 cr)
  (Generic)

Actual Credits 4

Requirement Select
- Electives (4 cr.)
  (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- Emphasis Area 1
  (Generic)

Actual Credits 6

Requirement Select
- Elective Credit
  (Generic)

Actual Credits 9

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Electives (9 cr.)
  (Generic)

Actual Credits 9

Requirement Select
- Emphasis Area 1
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Emphasis Area 2
  (Generic)

Actual Credits 9

Requirement Select
- Electives (5 cr.)
  (Generic)

Actual Credits 5

Requirement Select
- LIST4994 - Introduction to Capstone

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Emphasis Area 2
  (Generic)

Actual Credits 3

Requirement Select
- LIST4995 - Culminating Project
  OR
- PRST4995 - Culminating Project

Actual Credits 3

Requirement Select

- Electives (9 cr.)
  (Generic)

Actual Credits 9

Requirement Select

- A total of 36 hours are required at the 3000-4000 level. A total of 12 hours are required at the 4000-level.
  (Generic)

Actual Credits -

PMGT-MIN - Project Management Minor

Program Overview

Program Long Title
Project Management Minor

College/School
Emerging and Integrative Studies

Department(s)
Interdisciplinary Studies

Requirements

Simple Requirements

Project Management for Professionals Minor

Type
Completion Requirement

Project Management for Professionals (PMGT) Minor

Curriculum:

3 Required Hours:

- LIST 3215 - Introduction to Project Management Expectations & Methodologies Credit: 3.

12 Elective Hours (Select 4 Courses):

- LIST 4220 - Project Management: Processes and Development Strategies Credit: 3.
- LIST 4250 - Project Management: Schedule and Finance Credit: 3.
- LIST 4260 - Project Management: Risk Mitigation, Assessment and Quality Assurance Credit: 3.
- LIST 4280 - Project Management for IT Professional Credit: 3.
- LIST 4113 - PRST/LIST Internship Credit: 3.
- BMGT 3510 - Management and Organizational Behavior Credit: 3.
- LIST 4710 - Workplace Conflict and Resolution Credit: 3. or BMGT 4410 (5410) - Conflict Management and Negotiation Credit: 3

RELS-MIN - Religious Studies Minor

Program Overview

Program Long Title
Religious Studies Minor

College/School
Emerging and Integrative Studies

Department(s)
Interdisciplinary Studies

Requirements

Simple Requirements

Religious Studies Minor

Type
Completion Requirement

Religious Studies (RELS) Minor

A minor will consist of:

- HIST 2310 - Early World History
- RELS 2010 - Introduction to Religious Studies

and at least six credits from:

- ENGL 3600 - The Bible as Literature
- HIST 4330-4339 (5330) - Religious Studies
- HIST 4520 (5520) - Medieval Europe
- HIST 4530 (5530) - Renaissance and Reformation
- HIST 4680 (5680) - The Holocaust
- HIST 4730 (5730) - The Modern Middle East
- PHIL 3010 - Philosophy of Religion
- PHIL 4020 - Comparative Religion
- RELS 3300 - Martin Luther King Jr.: Rhetoric & Theology of Non-Violent Social Change
- RELS 3410 - Religion and Comics and Graphic Novels
- RELS 3420 - Religious Diversity in the Workplace
- RELS 3600 - Religious Perspectives: Aging and End of Life
- RELS 4041 RELS 4042
- RELS 4043 - Directed Study
- RELS 4091-4099
- RELS 4110 - Jesus in History, Faith, and Tradition
- RELS 4300 - New Religious Movements
- RELS 4310 - Women in Religious Traditions

and three credits from:

- ASTR 1010 - Introduction to Modern Astronomy
- BIOL 1010 - Introduction to Biology
- ENGL 2330 - Topics in World Literature
- ENGL 3500 - Mythology
- GEOG 1100 - Global Climate Change
- HEC 3565 - Loss and Bereavement for Children and Families

- HIST 2220 - Modern Western Civilization
- NURS 3010 - Managing the End of Life
- NURS 3020 - The Merging of Two Worlds: Spirituality and Healthcare
- NURS 3030 - Cultural Sensitivity in the Healthcare Setting
- PHIL 2250 - Introductory Ethics
- SOC 4120 (5120) - Sociology of Death and Dying

Courses

Course Information

Course Title
Creative Inquiry Summer Exp

Academic Level (Course Level)
Undergraduate

Course Subject Code
CISE

Course Number
4000

Credit Hours

Credit Hours:
0

Other Hours

Min:
0

Course Description
Credit 0.Faculty mentor supervised creative inquiry experience during the summer terms. A maximum equivalent of ten weeks of part-time employment is possible. Zero-credit class.

College/School
Emerging and Integrative Studies

IC 1020: Connections to Interdisciplinary Computing

Course Information

Course Title
Connections to I.C.

Academic Level (Course Level)
Undergraduate

Course Subject Code
IC

Course Number
1020

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
The purpose of this course is to introduce Interdisciplinary Computing students to the university experience. Students will engage in meaningful academic and non-academic activities to explore the social, educational, and career opportunities available on campus and in the local community. Activities emphasize critical thinking in the formation of academic and social goals and support groups and in self-management and study skills. Introduces communication and teamwork skills.

College/School
Emerging and Integrative Studies

Syllabus
Syllabus IC 1020 - Connections to Interdisciplinary Computing (2).docx

IC 1200: Introduction to Interdisciplinary Computing

Course Information

Course Title
Intro to Interdisc Computing

Academic Level (Course Level)
Undergraduate

Course Subject Code
IC

Course Number
1200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course introduces the field of Interdisciplinary Computing. Topics include computing as a creative activity, abstraction, data and information, the Internet, the global impacts of computing, applications of computing in various fields, interdisciplinary thinking, and creative problem solving.

College/School
Emerging and Integrative Studies

Syllabus
Syllabus ICI 1200 - Introduction to Interdisciplinary Computing.docx

Course Information

Course Title
Technology, Society, & Ethics

Academic Level (Course Level)
Undergraduate

Course Subject Code
IC

Course Number
2200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course provides a comprehensive introduction to the ethical, social, and professional issues arising from the development and deployment of computing technology. Students will explore foundational ethical theories, professional codes of conduct, and a range of contemporary challenges, including data privacy, algorithmic bias, and the societal impact of digital platforms. Through case study analysis, critical discussion, and a major research project, students will develop the skills to analyze the complex interactions between technology and society, make informed judgments based on legal and ethical principles, and design and advocate for responsible technological solutions within their specific interdisciplinary fields of study.

College/School
Emerging and Integrative Studies

Syllabus
Syllabus IC2200 Feb 26.docx

Course Information

Course Title
FLS International Course

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1000

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
LIST 1000 is created for the FLS Core Courses offered in nine levels of proficiency. In the core course students learn the skills of speaking, listening, reading and writing in an integrated manner. LIST 1000 is reserved for participants in the Intensive English Language Program and is not intended for degree-seeking students. Credits may not be applied to a degree program. May be repeated up to 6 times.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
LIST 1000 is created for the FLS Core Courses offered in nine levels of proficiency. In the core course, students learn the skills of speaking, listening, reading and writing in an integrated manner. LIST 1000 is reserved for participants in the Intensive English Language Program and is not intended for degree seeking students. Credits may not be applied to a degree program. May be repeated up to 6 times.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1091

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Consent of advisor and Dean of Interdisciplinary Studies.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1092

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
No

Course Description
Consent of advisor and Dean of Interdisciplinary Studies.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1093

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
Consent of advisor and Dean of Interdisciplinary Studies.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1443

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Number Of Repeats:
9

Course Description
Workshop developed around a central theme. Workshops may be repeated with a different topic.

College/School
Emerging and Integrative Studies

Syllabus
Syllabus LIST 1443.docx

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1444

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Number Of Repeats:
9

Course Description
Workshop developed around a central theme. Workshops may be repeated with a different topic.

College/School
Emerging and Integrative Studies

Syllabus
Syllabus LIST 1444.docx

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1445

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Number Of Repeats:
9

Course Description
Workshop developed around a central theme. Workshops may be repeated with a different topic.

College/School
Emerging and Integrative Studies

Syllabus
Syllabus LIST 1445.docx

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1446

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Number Of Repeats:
9

Course Description
Workshop developed around a central theme. Workshops may be repeated with a different topic.

College/School
Emerging and Integrative Studies

Syllabus
Syllabus LIST 1446.docx

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1447

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Number Of Repeats:
9

Course Description
Workshop developed around a central theme. Workshops may be repeated with a different topic.

College/School
Emerging and Integrative Studies

Syllabus
Syllabus LIST 1447.docx

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1448

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Number Of Repeats:
9

Course Description
Workshop developed around a central theme. Workshops may be repeated with a different topic.

College/School
Emerging and Integrative Studies

Syllabus
Syllabus LIST 1448.docx

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1449

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Number Of Repeats:
9

Course Description
Workshop developed around a central theme. Workshops may be repeated with a different topic.

College/School
Emerging and Integrative Studies

Syllabus
Syllabus LIST 1449.docx

Course Information

Course Title
The Freshman Athlete Exp

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1601

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
This course is an introduction to the university experience with special attention given to the unique nature of the collegiate student athlete experience.

College/School
Emerging and Integrative Studies

Course Information

Course Title
The Freshman Athlete Exp

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1603

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is an introduction to the university experience with special attention given to the unique nature of the collegiate student athlete experience.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Major & Career Exploration

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
1610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course supports students who are either undecided in their career aspirations and/or have not fully explored the opportunities they would like to pursue after graduating from college. With this course, students will be allowed to personally explore and make a thoughtful decision about their major and possible career goals. Students will also explore student life at Tennessee Tech in both academic and non-academic activities.

College/School
Emerging and Integrative Studies

Course Information

Course Title
The Rhetoric of Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
2000

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
This course explores the implications of understanding and reporting scientific research data. Students will explore the importance of presenting research data effectively and ethically, and the role that subjective rhetoric plays in objective science data communication.

College/School
Emerging and Integrative Studies

Syllabus
Syllabus LIST 2000 Rhetoric of Science Rev.docx

Course Information

Course Title
Service Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
2091

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
This course provides students the opportunity to engage in a Service Learning project within the community. Students will have the opportunity to complete twenty service hours at a not-for-profit organization, while gaining work experience for the future. In addition to the service hours, students are required to read a textbook related to service learning, complete journal entries, and write reflective essays relating the work experiences to the text.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Service Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
2093

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course provides students the opportunity to engage in a Service Learning project within the community. Students will have the opportunity to complete sixty service hours at a not-for-profit organization, while gaining work experience for the future. In addition to the service hours, students are required to read a textbook related to service learning, complete journal entries, and write reflective essays relating the work experiences to the text.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Serv Lrning: Implmntn Process

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
2094

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
This is a course in service learning focusing on the implementation of a group-developed service-learning project. High Impact Practices will be used through hands on activities.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Academic/Community Connections

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
2300

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
The purpose of this course is to introduce students to concepts and practices that positively affect academic and community engagement. Understanding that the student athlete experience has some unique aspects, the course emphasizes the tolls and practices that can positively affect this experience. The course will include both in-class sessions led by various presenters, and an outside-of-class service-learning component. May be repeated up to 4 times.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Credit for Prior Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
2880

Credit Hours

Credit Hours:
1

Credit Hours:
12

Other Hours

Min:
1

Max:
12

Operator:
TO

Course Description
Prior learning credit for college-level, credit-worthy learning attained outside of a higher-education context. Credit is earned through a portfolio assessment: students may submit a learning portfolio to the College of Interdisciplinary Studies that is assessed by a multidisciplinary faculty assessment team. LIST 2880 credit is at the lower division level.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Intro to Interdisc. Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3000

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
This course will provide you with an overview of the what, when, where, why and how of interdisciplinary studies. You will have the opportunity to gain knowledge on topics of relevance in the field such as: local and global trends (historic and current), the role of research across disciplines, and the role of the interdisciplinary field within the workplace of today and tomorrow. Through participation in course activities, you will have the opportunity to develop your critical, analytical, and creative thinking skills and apply the knowledge gained to your individual academic and career path.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Service Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3093

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course provides students the opportunity to engage in a Service Learning project within the community. Students will have the opportunity to complete sixty service hours at a not-for-profit organization, while gaining work experience for the future. In addition to the service hours, students are required to read a textbook related to service learning, complete journal entries, write reflective essays relating the work experiences to the text, and complite an annotated bibliography relating research articles to the text.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Critical Thnk/Problem Solv

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The purpose of this course is to introduce students to basic approaches to critical thinking and problem solving, and apply those approaches to real-world problems. Topics will be covered utilizing a variety of teaching methods: lecture/discussion, cooperative learning/group problem solving, team projects, and individual problem solving exercises.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Youth Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The course will examine theories of factors associated with positive and negative outcomes in children and adolescents. Special attention will be given to resilience factors that help overcome adversity. Students will be able to explain and implement best practices in intervening to enhance the development of positive outcomes for children and adolescents.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Intro-Project Mgmt Expec/Methd

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3215

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is designed to equip the student with the needed background to apply for introductory-level roles in project management. Project managers play a key role in leading, planning and implementing critical projects to help their organizations succeed. In this course, students will discover foundational project management terminology and gain a deeper understanding of the role and responsibilities of a project manager.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Intimate Relationships

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The course will examine the social, cognitive, emotional, and physical factors of intimate relationships. The attachment relationships examined will range from parent-child bonds to friendships to marriage. Emphasis will be placed on sexuality and students will be able to understand the physiological components of sexual expressions as well as be able to articulately and respectfully discuss competing historic and contemporary social views related to intimate relationships.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workplace Etiquette

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The purpose of this course is to introduce students to professional skills and conduct that will help in job acquisition and advancement.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Team Bldg/Workplace Dynamics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The purpose of this course is to better understand the function of teams in workplace settings. Emphasis will be placed on applying theory to practice.

College/School
Emerging and Integrative Studies

Financial Literacy: Budget and Credit

Course Information

Course Title
Fin. Lit.: Budget and Credit

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3451

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
This course focuses on the important topic of financial literacy. The course explores the topics of budgeting, credit cards, credit reports, managing debt, and paying for college.

College/School
Emerging and Integrative Studies

Financial Literacy: Major Purchases and Insurance

Course Information

Course Title
Fin. Lit.: Maj Purchs & Ins

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3452

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
This course focuses on the important topic of financial literacy. The course explores the topics of insurance, major purchases, buying a home, buying a car, protecting assets, consumerism, and financing.

College/School
Emerging and Integrative Studies

Syllabus
LIST 3452 Syllabus.docx

Financial Literacy: Investment and Retirement Planning

Course Information

Course Title
Financial Lit.: Invest & Ret

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3453

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
This course focuses on the important topic of financial literacy. The course explores the topics protecting family wealth, creating family wealth, and retirement strategies.

College/School
Emerging and Integrative Studies

Syllabus
LIST 3453 Syllabus 2.24.2026.docx

Course Information

Course Title
Non-Profit Leadership

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is designed to provide an introduction to nonprofit organizations and the roles they play in society, as well as the various elements involved in non-profit leadership and governance.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Concepts of Caregiving

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course examines the concepts of caregiving both personally and professionally. This includes roles of caregiving, respite care, crisis management, personal connection, ethical boundaries, cultural aspects, insurance, and legal issues. This course will not only explore the traditional theories of caregiving but will also focus on aiding students in the development of their own personally-centered approaches to caregiving in their personal and professional environment.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Aging, Home Safety, Equip Use

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course examines the reality and functional requirements of aging and caregiving both personally and professional. This includes caring for the caregiver, normal aging, home assessment and modification, body mechanics/patient handling, equipment and use, insurance, building a professional clinical network, and signs/symptoms of distress/most common risk factors for re-hospitalization. This course will not only explore traditional modes of caregiving but will also focus on aiding students and caregivers in the development of their own real world approaches to caregiving in their personal and professional environment.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Substance Abuse and Caregiving

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This is an upper-division course that examines the concepts of caregiving, both personally and professionally, for persons who have the disease of addiction. Topics include roles of caregiving, 12-step care, crisis management, personal connection, ethical boundaries, personal boundaries, cultural aspects, insurance, and legal issues. This course will not only explore the traditional theories of caregiving, but will also focus on aiding students in the development of their own personally-centered approaches to caregiving, both in their personal and professional environment as well as where and how to set healthy boundaries with persons who are addicted and or alcoholic.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Credit for Prior Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3880

Credit Hours

Credit Hours:
1

Credit Hours:
12

Other Hours

Min:
1

Max:
12

Operator:
TO

Course Description
Prior learning credit for college-level, credit-worthy learning attained outside of a higher-education context. Credit is earned through a portfolio assessment: students may submit a learning portfolio to the College of Interdisciplinary Studies that is assessed by a multidisciplinary faculty assessment team. LIST 3880 credit is at the upper division level.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Innovation/Entrepreneurship St

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3900

Credit Hours

Credit Hours:
0

Lecture Hours

Min:
0

Repeatable for Credit:
No

Course Description
The purpose of this course is to introduce students to methods and mind sets for creating a start-up business. By registering for LIST 3900, students declare intent to pursue the Certificate in Innovation and Entrepreneurship.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Innovation/Entrepreneurship St

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
3991

Credit Hours

Credit Hours:
0

Lecture Hours

Min:
0

Course Description
The purpose of this course is to culminate the student's experience in the Certificate in Innovation and Entrepreneurship. Students enroll in this course the semester they complete the Certificate.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4041

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Individualized directed studies where there is no appropriate course offering, under the supervision of a faculty mentor.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Consent of the instructor.

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4042

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Individualized directed studies where there is no appropriate course offering, under the supervision of a faculty mentor.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Consent of the instructor.

Course Information

Course Title
Directed Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4043

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Individualized directed studies where there is no appropriate course offering, under the supervision of a faculty mentor.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Consent of the instructor.

Course Information

Course Title
American Sign Language I

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to and development of a basic vocabulary in American Sign Language.

College/School
Emerging and Integrative Studies

Course Information

Course Title
American Sign Language II

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4090

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: LIST 4050 or instructor permission. Continuation of vocabulary development in American Sign Language.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
LIST 4050 or instructor permission.

Course Information

Course Title
Special Topics & Leadership

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4093

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific topic not commonly found in a discipline on campus, not to include work experience. May be repeated if topic is different. No more than 9 hours of LIST 4091, 4092, and 4093 may be used for degree.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Adult Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: None. Jr/Sr status is recommendedIntroduction to principles of adult learning and the application of these principles to teaching, training, and personal development.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Junior or Senior status is recommended.

Course Information

Course Title
PRST/LIST Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4113

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of instructor. Educational activity within an organization dealing with the type of work the student hopes to do upon graduation. The internship is a learning environment where the student is treated as one of the employees but often does not have the pressures of being a full-time employee. Class may be taken twice for a total of (6) credit hours. Interdisciplinary Studies majors may take up to (6) credit hours of internship.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Permission of instructor.

Course Information

Course Title
PRST/LIST Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4114

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Repeatable for Credit:
No

Course Description
Prerequisite: Permission of instructor. Educational activity within an organization dealing with the type of work the student hopes to do upon graduation. The internship is a learning environment where the student is treated as one of the employees but often does not have the pressures of being a full-time employee. Interdisciplinary Studies majors may take up to (6) credit hours of internship.

College/School
Emerging and Integrative Studies

Course Information

Course Title
LIST/PRST Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4115

Credit Hours

Credit Hours:
5

Lecture Hours

Min:
5

Course Description
Prerequisite: Permission of instructor. Educational activity within an organization dealing with the type of work the student hopes to do upon graduation. The internship is a learning environment where the student is treated as one of the employees but often does not have the pressures of being a full-time employee. Interdisciplinary Studies majors may take up to (6) credit hours of internship.

College/School
Emerging and Integrative Studies

Course Information

Course Title
LIST/PRST Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4116

Credit Hours

Credit Hours:
6

Lecture Hours

Min:
6

Course Description
Prerequisite: Permission of instructor. Educational activity within an organization dealing with the type of work the student hopes to do upon graduation. The internship is a learning environment where the student is treated as one of the employees but often does not have the pressures of being a full-time employee. Interdisciplinary Studies majors may take up to (6) credit hours of internship.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Prof & Personal Integrity

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior/Senior status or permission of the instructor. Participants will explore methods for promoting personal and social wholeness. Based on the notion that a healthy society flows from healthy individuals, and by examining historical case studies and contemporary literature, the course will help students maximize personal potential by learning effective management of emotions, commitment to justice, and promoting behavior rooted in wisdom, kindness, and courage.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Junior or Senior status or permission of the instructor.

Course Information

Course Title
Proj Mgt: Process/Dev Strateg

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: LIST 3215: Introduction to Project Management Expectations, or instructor approval. The world of project management is changing. Industry no longer relies on a single project management process to complete all project work, instead they use multiple processes all tailored to their needs. This course is designed to take a deep dive view in the world of project management processes leveraged in industries today. At the completion of the class, students will have a better understanding of the processes to include predictive (Waterfall), adaptive (SCRUM), and hybrid processes.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
LIST 3215.

Course Information

Course Title
Project Mgmt:Sched & Fin

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: LIST 3215. This course is designed to take a deep approach into both the schedule and financial activities used by project managers today. In this class, students will earn how to both plan and estimate activities to include how to create a schedule baseline, develop a network diagram, estimate activity durations, and develop a schedule and build financial estimates. In addition, students will learn critical terms such as critical path, late start, late finish, early start, and early finish.

College/School
Emerging and Integrative Studies

Course Information

Course Title
PM: Risk, Assessment & Quality

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4260

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: LIST 3215. This course provides an overview of risk mitigation with a focus on project management models, risk assessment including FMEA analysis, and includes a comprehensive introduction to standards organization and their purpose. Course topics will include: (a) continuous risk assessment models, (b) continuous process improvement, (c) LEAN Management principles, and (d) Make or Break Quality assessment. Case studies will be analyzed in each area, and each student will be required to assess and develop mitigation strategies relating to risk and quality management.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Proj Mgt for IT Professional

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4280

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: LIST 3215: Introduction to Project Management Expectations, or instructor approval. This course provides an overview of strategic project planning and execution in IT delivery and administration with a focus on project management models, tools, planning, analysis, and assessment. This course explores strategies to provide successful oversight of information technology projects that an organization undertakes. Topics include planning, budgeting, executing, leading, troubleshooting, and maintaining IT projects.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
LIST 3215.

Course Information

Course Title
Project Mgmt/Hlthcare Admin

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4290

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: LIST3215. This course provides an overview of strategic project planning and execution in healthcare delivery and administration with a focus on project management models, tools, planning, analysis, and assessment. Course topics will include: (a) healthcare strategy development, (b) market structure and product life cycle, (c) business model development and disruptive innovation, (d) stakeholders and organizational goals, and (e) implementing, monitoring, and evaluating strategies. Case studies will be explored, and each student will be required to develop a strategic project plan on a topic aligned with their healthcare interests.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workplace Performance

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior/Senior status or permission of the instructor. The purpose of this course is to introduce students to Industrial Management and the theories that inform management in the workplace. Topics will be covered utilizing a variety of teaching methods: lecture/discussion, cooperative learning/group problem solving, projects and individual problem solving exercises.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Junior or Senior status or permission of the instructor.

Course Information

Course Title
Technology for Presentations

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4340

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: COMM 2025 or PC 2500. Development of knowledge and skills necessary for communications and presentations using various instructional technologies. Special emphasis will be given to workplace and training applications.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
COMM 2025 or PC 2500.

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4440

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Workshop developed around a central theme. May be repeated with a different topic

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4441

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Workshop developed around a central theme. May be repeated with a different topic

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4443

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Workshop developed around a central theme. May be repeated with a different topic

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4442

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Workshop developed around a central theme. May be repeated with a different topic

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4444

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Workshop developed around a central theme. May be repeated with a different topic

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4445

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Workshop developed around a central theme. May be repeated with a different topic

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4447

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Workshop developed around a central theme. May be repeated with a different topic

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4446

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Workshop developed around a central theme. May be repeated with a different topic

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4448

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Workshop developed around a central theme. May be repeated with a different topic

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4449

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Workshop developed around a central theme. May be repeated with a different topic

College/School
Emerging and Integrative Studies

Course Information

Course Title
Deaf Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is an introduction to Deaf Culture. The focus is on the perspectives of Deaf culture from their community, languages, & lifestyle. Emphasis is placed on Deaf culture and Deaf people in history, languages, accessibility, education, artist, & law. Students will analyze and acknowledge how the Deaf community and Hearing community compare in their cultures with languages.

College/School
Emerging and Integrative Studies

Course Information

Course Title
American Sign Language III

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4590

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: LIST 4050 - ASL I and LIST 4090 - ASL II or instructor approval. This course is an advanced study of American Sign Language. The focus is on developing advanced principles and skills of American Sign Language through cultural appreciation and non-verbal instructions. Emphasis is placed on Deaf culture and Deaf people in history, visual training, sign vocabulary acquisition, comprehension, classifiers, and communicative skills development, as well as basic structural and grammatical patterns of ASL discourse.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
ASL 1 and ASL 2 or Instructor Approval.

Course Information

Course Title
Advanced Caregiving

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course examines the concepts of caregiving both personally and professionally. Advanced issues examined to caregiving include; Dementia, disease processes, difficult behaviors, details of Medicaid and Medicare, and estate/financial planning.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Workplace Conflict/Resolution

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This is an upper-division course that examines the nature of conflict in the workplace and at home. This includes what causes it; what its effects, benefits, and costs are; what can be done to maximize the benefits (engage in constructive conflict); and, to limit the costs (prevent, manage, and resolve destructive conflict). This course will not only explore the traditional theories of people management and conflict resolutions, but will also focus on aiding students in the development of their own personally-centered approaches to conflict management and negotiation in their professional environment.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Topics in Organization Devl

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4850

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Concentration on a topic in Organization Development. May be repeated if topic is different. No more than nine hours of LIST 4850 may be used for degree.

College/School
Emerging and Integrative Studies

Special Topics in Innovation and Entrepreneurship

Course Information

Course Title
Sp Top: Innovation/Entrprnshp

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4900

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The purpose of this course is to study special topics in innovation and entrepreneurship development problems, customer discovery, minimally viable product prototyping, and planning and pitching for a small business through experiential learning activities, written works, and presentations. Students may register for up to 3 hours of Special Topics in Innovation and Entrepreneurship per semester. Up to 6 hours may be used to meet the Entrepreneurial Perspective requirement in the Certificate in Innovation and Entrepreneurship.

College/School
Emerging and Integrative Studies

Special Topics in Innovation and Entrepreneurship

Course Information

Course Title
Sp Top: Innovation/Entrprnshp

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4901

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The purpose of this course is to study special topics in innovation and entrepreneurship development problems, customer discovery, minimally viable product prototyping, and planning and pitching for a small business through experiential learning activities, written works, and presentations. Students may register for up to 3 hours of Special Topics in Innovation and Entrepreneurship per semester. Up to 6 hours may be used to meet the Entrepreneurial Perspective requirement in the Certificate in Innovation and Entrepreneurship.

College/School
Emerging and Integrative Studies

Special Topics in Innovation and Entrepreneurship

Course Information

Course Title
Sp Top: Innovation/Entrprnshp

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4902

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The purpose of this course is to study special topics in innovation and entrepreneurship development problems, customer discovery, minimally viable product prototyping, and planning and pitching for a small business through experiential learning activities, written works, and presentations. Students may register for up to 3 hours of Special Topics in Innovation and Entrepreneurship per semester. Up to 6 hours may be used to meet the Entrepreneurial Perspective requirement in the Certificate in Innovation and Entrepreneurship.

College/School
Emerging and Integrative Studies

Special Topics in Innovation and Entrepreneurship

Course Information

Course Title
Sp Top: Innovation/Entrprnshp

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4904

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The purpose of this course is to study special topics in innovation and entrepreneurship development problems, customer discovery, minimally viable product prototyping, and planning and pitching for a small business through experiential learning activities, written works, and presentations. Students may register for up to 3 hours of Special Topics in Innovation and Entrepreneurship per semester. Up to 6 hours may be used to meet the Entrepreneurial Perspective requirement in the Certificate in Innovation and Entrepreneurship.

College/School
Emerging and Integrative Studies

Special Topics in Innovation and Entrepreneurship

Course Information

Course Title
Sp Top: Innovation/Entrprnshp

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4903

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The purpose of this course is to study special topics in innovation and entrepreneurship development problems, customer discovery, minimally viable product prototyping, and planning and pitching for a small business through experiential learning activities, written works, and presentations. Students may register for up to 3 hours of Special Topics in Innovation and Entrepreneurship per semester. Up to 6 hours may be used to meet the Entrepreneurial Perspective requirement in the Certificate in Innovation and Entrepreneurship.

College/School
Emerging and Integrative Studies

Special Topics in Innovation and Entrepreneurship

Course Information

Course Title
Sp Top: Innovation/Entrprnshp

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4905

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The purpose of this course is to study special topics in innovation and entrepreneurship development problems, customer discovery, minimally viable product prototyping, and planning and pitching for a small business through experiential learning activities, written works, and presentations. Students may register for up to 3 hours of Special Topics in Innovation and Entrepreneurship per semester. Up to 6 hours may be used to meet the Entrepreneurial Perspective requirement in the Certificate in Innovation and Entrepreneurship.

College/School
Emerging and Integrative Studies

Special Topics in Innovation and Entrepreneurship

Course Information

Course Title
Sp Top: Innovation/Entrprnshp

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4906

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The purpose of this course is to study special topics in innovation and entrepreneurship development problems, customer discovery, minimally viable product prototyping, and planning and pitching for a small business through experiential learning activities, written works, and presentations. Students may register for up to 3 hours of Special Topics in Innovation and Entrepreneurship per semester. Up to 6 hours may be used to meet the Entrepreneurial Perspective requirement in the Certificate in Innovation and Entrepreneurship.

College/School
Emerging and Integrative Studies

Special Topics in Innovation and Entrepreneurship

Course Information

Course Title
Sp Top: Innovation/Entrprnshp

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4908

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The purpose of this course is to study special topics in innovation and entrepreneurship development problems, customer discovery, minimally viable product prototyping, and planning and pitching for a small business through experiential learning activities, written works, and presentations. Students may register for up to 3 hours of Special Topics in Innovation and Entrepreneurship per semester. Up to 6 hours may be used to meet the Entrepreneurial Perspective requirement in the Certificate in Innovation and Entrepreneurship.

College/School
Emerging and Integrative Studies

Special Topics in Innovation and Entrepreneurship

Course Information

Course Title
Sp Top: Innovation/Entrprnshp

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4907

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The purpose of this course is to study special topics in innovation and entrepreneurship development problems, customer discovery, minimally viable product prototyping, and planning and pitching for a small business through experiential learning activities, written works, and presentations. Students may register for up to 3 hours of Special Topics in Innovation and Entrepreneurship per semester. Up to 6 hours may be used to meet the Entrepreneurial Perspective requirement in the Certificate in Innovation and Entrepreneurship.

College/School
Emerging and Integrative Studies

Special Topics in Innovation and Entrepreneurship

Course Information

Course Title
Sp Top: Innovation/Entrprnshp

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4909

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The purpose of this course is to study special topics in innovation and entrepreneurship development problems, customer discovery, minimally viable product prototyping, and planning and pitching for a small business through experiential learning activities, written works, and presentations. Students may register for up to 3 hours of Special Topics in Innovation and Entrepreneurship per semester. Up to 6 hours may be used to meet the Entrepreneurial Perspective requirement in the Certificate in Innovation and Entrepreneurship.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4921

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4922

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4923

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area. Students may take up to 9 hours of 4921-4929 combined, if they are different topics.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4924

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area. Students may take up to 9 hours of 4921-4929 combined, if they are different topics.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4925

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area. Students may take up to 9 hours of 4921-4929 combined, if they are different topics.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4927

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area. Students may take up to 9 hours of 4921-4929 combined, if they are different topics.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4926

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area. Students may take up to 9 hours of 4921-4929 combined, if they are different topics.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4928

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area. Students may take up to 9 hours of 4921-4929 combined, if they are different topics.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4929

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area. Students may take up to 9 hours of 4921-4929 combined, if they are different topics.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Introduction to Capstone

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4994

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The purpose of this course is to help prepare students for the Senior Capstone Course (LIST 4995). 4995 is required of all Interdisciplinary Studies/Professional Studies majors. This course is required for all LIST and PRST majors.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Culminating Project

Academic Level (Course Level)
Undergraduate

Course Subject Code
LIST

Course Number
4995

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Senior Status. Permission of instructor. Academic research or other creative activity resulting in a tangible product to demonstrate synthesis of student's coursework. This course is required for all PRST and LIST majors. Students must earn a minimum grade of C to graduate.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Senior Status. Permission of instructor.

Course Information

Course Title
Intro to Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to the academic study of religion and the field of Religious Studies. Students will explore basic questions related to religion in a cultural historical and personal context. In addition, the course will offer an overview of five major world religions: Buddhism, Christianity, Hinduism, Islam, and Judaism.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
MLK:R&T Nonviolent/Soc Change

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
3300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course will take an interdisciplinary approach to explore the lasting legacy of Martin Luther King Jr. Special emphasis will be given to the role of religion in the Non-Violent Social Change movement, and to the philosophical and theological training that influenced Dr. King’s thinking.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Religion in Comics/Graphic Nov

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
3410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: RELS 2010 or permission of instructor. The purpose of this course is to examine the relationship between comics and graphic novels and religion. Comic books and graphic novels are both arbiters and products of culture, and therefore speak to and reflect, or change, the religious experience and culture of those engaged with them.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
RELS 2010 or permission of instructor.

Course Information

Course Title
Religious Diversity/Workplace

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
3420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: RELS 2010 or permission of instructor. The purpose of this course is to examine how to navigate an increasingly religiously-diverse society from the perspective of how to engage with co-workers, supervisors, and subordinates in both the American and international workplace. This course will include an overview of a number of modern practices of global religious, a summation of beliefs with a focus on religious difference, and information regarding best practices for preventing microaggressions, conflict, human resources blunders, and religious intolerance.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
RELS 2010 or consent of instructor.

Course Information

Course Title
Rel Perspec: Aging/End of Life

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
3600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: RELS 2010 or permission of instructor. The purpose of this course is to examine how different religious approach the eventualities we all face - aging, dying, and death - in order to increase student understanding and deepen religious studies knowledge. This course will focus both on the rituals involved in aging, dying, death and bereavement, and the meaning of these life events in different religious traditions. As a course that also applies for the Caregiving Certificate, it will also involve an exploration of how various cultures approach the idea of eldercare and life cycles.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
RELS 2010 or consent of instructor.

Course Information

Course Title
Directed Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4041

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Individualized directed study with a faculty mentor.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Directed Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4043

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Individualized directed study with a faculty mentor.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Directed Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4042

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Individualized directed study with a faculty mentor.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Sp Topics/Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4091

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific religious studies topic not commonly found in a discipline on campus. May be repeated if topic is different. No more than 9 hours of RELS 4091-4099 may be used for degree.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Sp Topics/Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4092

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific religious studies topic not commonly found in a discipline on campus. May be repeated if topic is different. No more than 9 hours of RELS 4091-4099 may be used for degree.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Sp Topics/Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4094

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific religious studies topic not commonly found in a discipline on campus. May be repeated if topic is different. No more than 9 hours of RELS 4091-4099 may be used for degree.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Sp Topics/Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4093

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific religious studies topic not commonly found in a discipline on campus. May be repeated if topic is different. No more than 9 hours of RELS 4091-4099 may be used for degree.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Sp Topics/Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4095

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific religious studies topic not commonly found in a discipline on campus. May be repeated if topic is different. No more than 9 hours of RELS 4091-4099 may be used for degree.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Sp Topics/Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4096

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific religious studies topic not commonly found in a discipline on campus. May be repeated if topic is different. No more than 9 hours of RELS 4091-4099 may be used for degree.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Sp Topics/Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4098

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific religious studies topic not commonly found in a discipline on campus. May be repeated if topic is different. No more than 9 hours of RELS 4091-4099 may be used for degree.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Sp Topics/Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4097

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific religious studies topic not commonly found in a discipline on campus. May be repeated if topic is different. No more than 9 hours of RELS 4091-4099 may be used for degree.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Sp Topics/Religious Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4099

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Upper division level study in a specific religious studies topic not commonly found in a discipline on campus. May be repeated if topic is different. No more than 9 hours of RELS 4091-4099 may be used for degree.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Introduction to Koine Greek

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
The purpose of this course is to introduce students to Koine Greek language, the language of the New Testament Bible.

College/School
Emerging and Integrative Studies

Syllabus
Syllabus RELS 4100 .pdf

Course Information

Course Title
Jesus-History/Faith/Tradition

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: RELS 2010, or permission of the instructor. The goal of the course is to explore the life, teachings, and influence of Jesus of Nazareth. Special emphasis will be given to various sources of information regarding his life and teachings.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
RELS 2010, or permission of the instructor.

Course Information

Course Title
New Religious Movements

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: RELS 2010 or permission of instructor. The purpose of this course is to introduce students to the historical and cultural contexts of New Religious Movements (commonly known as cults or sects) primarily in the United States, from the Second Great Awakening forward. The course will develop students' understanding of Religious Studies as a discipline, and encourage individual inquiry into Religious Studies topics.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
RELS 2010 or permission of instructor.

Course Information

Course Title
Women in Religious Traditions

Academic Level (Course Level)
Undergraduate

Course Subject Code
RELS

Course Number
4310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: RELS 2010 or permission of instructor. The purpose of this course is to examine how religious traditions are experienced by female practitioners, how women shape religious traditions, and how the issues of sex, gender, and sexuality influence and are influenced by religious traditions, both within the religions themselves and outside in wider culture and society.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
RELS 2010 or permission of instructor.

Course Information

Course Title
Learning Strategies

Academic Level (Course Level)
Undergraduate

Course Subject Code
UNIV

Course Number
1030

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Course Description
UNIV 1030 is a course designed to strengthen the student's connection to Tennessee Technological University by focusing on the enhancement of skills needed for academic success. This course engages the student in meaningful academic and non-academic, in-and-out-of-classroom activities. It emphasizes critical thinking in the formation of academic and social goals and support groups, in self-management, and in study strategies.Placement in Learning Strategies (UNIV1030) is required for students who place into two or more subject areas [Math, Reading, Writing/English] of learning support. Students may self-place to improve their study techniques for college-level work. Withdrawal is not allowed except with special permission.

College/School
Emerging and Integrative Studies

Course Information

Course Title
LSP Lab/English Composition I

Academic Level (Course Level)
Undergraduate

Course Subject Code
UNIV

Course Number
1100

Credit Hours

Credit Hours:
0

Lab Hours

Min:
1

Course Description
Placement by ACT English score less than 18 and/or by COMPASS placement exam writing score less than 77 or placement by ACT Reading score less than 17 and/or by COMPASS placement exam reading score less than 73.Learning Support Lab for Writing and Reading is provided through tutoring, workshops, conferences, computer software, etc., both in and out of the classroom setting by Learning Support Program faculty and supervised teaching assistants. Topics covered are intended to coincide with the schedules/syllabi for ENGL 1010 and UNIV 1010 to support concepts as they are introduced in those classes. Withdrawal is not allowed except with special permission.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Corequisite:
ENGL 1010.

Manufact/Indust Systems Engr. Department

Programs

BE-ND - Basic Engineering

Program Overview

Program Long Title
Basic Engineering

College/School
Engineering

Department(s)
Manufact/Indust Systems Engr.

Requirements

Simple Requirements

Basic Engineering, Freshman Year

Type
Completion Requirement

Freshman Year Courses

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I
- CHEM1120 - General Chemistry II
- CSC1200 - Principles of Computing
- CSC1300 - Intro/Prob Solving-Comp Prog
- ENGR1000 - Intro to Engineering Analysis
- ENGR1110 - Engineering Graphics
- ENGR1120 - Programming for Engineers
- ENGR1210 - Intro to Engineering
- ENGR2100 - Intro/Engr Communication
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- MATH1710 - Pre-Calculus Algebra
- MATH1720 - Pre-calculus Trigonometry
- MATH1904 - Extended Calculus IA
  AND MATH1906 - Extended Calculus IB
- MATH1910 - Calculus I
- MATH1920 - Calculus II
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

1 Students should consult with their advisor prior to taking ENGR 1110, ENGR 1120, ENGR 1210, CSC 1300, or PHYS 2110 to ensure the courses are applicable to the Engineering disciplines in which the student has potential interest.

2 ENGR 1210 is not included in the 128-hour curriculum.

Freshman Year Courses

Complete ANY of the following Course Sets:

- Humanities/Cultural Expression (FFHC)
- Social and Behavioral Sciences (GEDS)

ENGR-BSE - General Engineering, Joint TTU-ETSU B.S.E.

Program Overview

Program Long Title
General Engineering, Joint TTU-ETSU B.S.E.

College/School
Engineering

Department(s)
Manufact/Indust Systems Engr.

Degree Map

Degree Map Name
General Engineering-Joint TTU-ETSU, B.S.E. (128 hours)
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGR1110 - Engineering Graphics

Actual Credits 2

Requirement Select
- ENGR1020 - Connections to Engr & Tech

Actual Credits -

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- CHEM1120 - General Chemistry II

Actual Credits 4

Requirement Select
- ENGR1120 - Programming for Engineers

Actual Credits 2

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- CEE2110 - Statics

Actual Credits 3

Requirement Select
- ENGR3710 - Principles of Engr Economy

Actual Credits 2

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Requirement Select
- ME2330 - Dynamics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	18

Requirement Select
- ECE2050 - Circuits and Electronics I

Actual Credits 4

Requirement Select
- ENGR3120 - Solid Modeling

Actual Credits 3

Requirement Select
- CEE3110 - Mechanics of Materials

Actual Credits 3

Requirement Select
- ME2210 - Thermodynamics

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- ENGR3720 - Principles of Engr Statistics

Actual Credits 2

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- ECE2140 - Intro to Digital Systems

Actual Credits 4

Requirement Select
- ME3310 - Experimntl Methods 1-DUPLICATE (Inactive)

Actual Credits 3

Requirement Select
- ME3010 - Materials & Processes in Mfg

Actual Credits 3

Requirement Select
- ME3720 - Fluid Mechanics

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- ENGR4900 - Engr Design, Profesm, Ethics

Actual Credits 3

Requirement Select
- ENGR4950 - Senior Design I

Actual Credits 3

Requirement Select
- ENGR4510 - Engineering Management

Actual Credits 3

Requirement Select
- ENGR4750 - Mechanical Engineering Lab

Actual Credits 1

Requirement Select
- Technical Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Technical Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Technical Electives (12 hours chosen from the following): TTU Courses - CEE 3320, CEE 3413, CEE 3610, ECE 3210, ECE 3330, ECE 3610, ME 3610, ME 3710, ME 3020. ETSU Courses – ENTC 3340, ENTC 3440, ENTC 4037, ENTC 4237, ENTC 4257, ENTC 4989, MGMT 4617, SURV 2530.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select
- ENGR3020 - Numerical Methods

Actual Credits 3

Requirement Select
- ENGR4960 - Senior Design II

Actual Credits 3

Requirement Select
- Technical Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Technical Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (2 cr.)
  (Generic)

Actual Credits 2

Requirement Select
- Technical Electives (12 hours chosen from the following): TTU Courses - CEE 3320, CEE 3413, CEE 3610, ECE 3210, ECE 3330, ECE 3610, ME 3610, ME 3710, ME 3020. ETSU Courses – ENTC 3340, ENTC 3440, ENTC 4037, ENTC 4237, ENTC 4257, ENTC 4989, MGMT 4617, SURV 2530.
  (Generic)

Actual Credits -

Requirement Select
- The FE Exam is required for graduation.
  (Generic)

Actual Credits -

ET-ETM - Engineering Technology, Engineering Technology Management Concentration, B.S.E.T.

Program Overview

Program Long Title
Engineering Technology, Engineering Technology Management Concentration, B.S.E.T.

College/School
Engineering

Department(s)
Manufact/Indust Systems Engr.

Degree Map

Degree Map Name
Degree Plan - Engineering Technology, Engineering Technology Management, B.S.E.T.
Total Degree Map Credits
123
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative
(Leading to the Bachelor of Science in Engineering Technology Degree)

Accredited by the Engineering Technology Accreditation Commission of ABET, http://www.ABET.org

Year	Semester	Actual Credits
Freshman Year	Fall	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ENGR1110 - Engineering Graphics

Actual Credits 2

Requirement Select
- MATH1730 - Pre-Calculus Math

Actual Credits 5

Requirement Select
- MET1115 - Intro to MET & Engr Ethics

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Spring	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1845 - Technical Calculus

Actual Credits 3

Requirement Select
- MET2000 - Occupational Safety

Actual Credits 2

Requirement Select
- CHEM1110 - General Chemistry I

  OR
- CHEM1010 - Introductory Chemistry I

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Fall	14

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- ENGR1120 - Programming for Engineers

Actual Credits 2

Requirement Select
- MET2065 - Metal Manufacturing Technology

Actual Credits 2

Requirement Select
- PHYS2010 - Algebra-based Physics I

  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- FIN2000 - Personal Finance

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring	16

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MET2400 - Statics/Strengths of Materials

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II

  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Fall	15

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- ME3010 - Materials & Processes in Mfg

  OR
- MET3100 - Applied Physical Metallurgy

Actual Credits 3

Requirement Select
- MET3303 - CAD for Technology

Actual Credits 3

Requirement Select
- MET3713 - Methods Dsgn/Work Measurement

Actual Credits 3

Requirement Select
- MET3200 - App Electricity & Electronics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select

- ECON3610 - Business Statistics I

  OR
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select

- MET3003 - Principles of Metal Casting

Actual Credits 3

Requirement Select

- MET3403 - Applied Machine Elements

Actual Credits 3

Requirement Select

- ACCT3720 - Survey of Accounting

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Fall	17

Requirement Select

- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select

- MET3150 - Maintenance Technology

Actual Credits 2

Requirement Select

- MKT3400 - Principles of Marketing

Actual Credits 3

Requirement Select

- MET4600 - Product Design & Development

Actual Credits 3

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- MET3703 - Manufacturing Cost Estimating

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	15

Requirement Select

- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Requirement Select

- MET4620 - Senior Projects

Actual Credits 3

Requirement Select

- MET4650 - Lean Six Sigma Mfg

Actual Credits 3

Requirement Select

- MET4310 - Plant Layout/Mtrl Handling

Actual Credits 3

Requirement Select

- MET4550 - Mntnce, Rplcmnt, Rlblty Engr

Actual Credits 3

ET-MET - Engineering Technology, Mechatronics Engineering Technology Concentration, B.S.E.T.

Program Overview

Program Long Title
Engineering Technology, Mechatronics Engineering Technology Concentration, B.S.E.T.

College/School
Engineering

Department(s)
Manufact/Indust Systems Engr.

Degree Map

Degree Map Name
Degree Plan - Engineering Technology, Mechatronics Engineering Technology, B.S.E.T.
Total Degree Map Credits
123
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative
(Leading to the Bachelor of Science in Engineering Technology Degree)

Accredited by the Engineering Technology Accreditation Commission of ABET, http://www.ABET.org

Year	Semester	Actual Credits
Freshman Year	Fall	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ENGR1110 - Engineering Graphics

Actual Credits 2

Requirement Select
- MATH1730 - Pre-Calculus Math

Actual Credits 5

Requirement Select
- MET1115 - Intro to MET & Engr Ethics

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Spring	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1845 - Technical Calculus

Actual Credits 3

Requirement Select
- MET2000 - Occupational Safety

Actual Credits 2

Requirement Select
- CHEM1110 - General Chemistry I
  OR
- CHEM1010 - Introductory Chemistry I

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Fall	14

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- ENGR1120 - Programming for Engineers

Actual Credits 2

Requirement Select
- MET2065 - Metal Manufacturing Technology

Actual Credits 2

Requirement Select
- PHYS2010 - Algebra-based Physics I
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- FIN2000 - Personal Finance

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring	16

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MET2400 - Statics/Strengths of Materials

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II
  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Fall	15

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- ME3010 - Materials & Processes in Mfg
  OR
- MET3100 - Applied Physical Metallurgy

Actual Credits 3

Requirement Select
- MET3303 - CAD for Technology

Actual Credits 3

Requirement Select
- MET3713 - Methods Dsgn/Work Measurement

Actual Credits 3

Requirement Select
- MET3200 - App Electricity & Electronics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring	15

Requirement Select
- ECON3610 - Business Statistics I
  OR
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- MET3003 - Principles of Metal Casting

Actual Credits 3

Requirement Select
- MET3403 - Applied Machine Elements

Actual Credits 3

Requirement Select
- MET3270 - Industrial Electronics & PLCs

Actual Credits 3

Requirement Select
- ACCT3720 - Survey of Accounting

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Fall	17

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- MET3150 - Maintenance Technology

Actual Credits 2

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Requirement Select
- MET4000 - Advanced Foundry Technology

Actual Credits 3

Requirement Select
- MET4250 - Applied Mechatronics

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	15

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Requirement Select
- MET4620 - Senior Projects

Actual Credits 3

Requirement Select
- MET4220 - Industrial Automation/Robotics

Actual Credits 3

Requirement Select
- MET3060 - Comp Num Cont Mchng Prct

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

ET-MIN - Engineering Technology Minor

Program Overview

Program Long Title
Engineering Technology Minor

College/School
Engineering

Department(s)
Manufact/Indust Systems Engr.

Requirements

Simple Requirements

Manufacturing and Engineering Technology Minor

Type
Completion Requirement

Manufacturing and Engineering Technology (ET) Minor

Students must complete fifteen (15) semester hours to include nine (9) lower division MET hours and six (6) upper division MET hours.

ET-SMFG - Engineering Technology, Smart Manufacturing Concentration, B.S.E.T.

Program Overview

Program Long Title
Engineering Technology, Smart Manufacturing Concentration, B.S.E.T.

College/School
Engineering

Department(s)
Manufact/Indust Systems Engr.

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - Engineering Technology, Engineering Technology Management, B.S.E.T.
Total Degree Map Credits
123
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative
(Leading to the Bachelor of Science in Engineering Technology Degree)

Accredited by the Engineering Technology Accreditation Commission of ABET, http://www.ABET.org

Year	Semester	Actual Credits
Freshman Year	Fall	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ENGR1110 - Engineering Graphics

Actual Credits 2

Requirement Select
- MATH1730 - Pre-Calculus Math

Actual Credits 5

Requirement Select
- MET1115 - Intro to MET & Engr Ethics

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Spring	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1845 - Technical Calculus

Actual Credits 3

Requirement Select
- MET2000 - Occupational Safety

Actual Credits 2

Requirement Select
- CHEM1110 - General Chemistry I

  OR
- CHEM1010 - Introductory Chemistry I

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Fall	14

Requirement Select
- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select
- ENGR1120 - Programming for Engineers

Actual Credits 2

Requirement Select
- MET2065 - Metal Manufacturing Technology

Actual Credits 2

Requirement Select
- PHYS2010 - Algebra-based Physics I

  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- FIN2000 - Personal Finance

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring	16

Requirement Select
- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MET2400 - Statics/Strengths of Materials

Actual Credits 3

Requirement Select
- PHYS2020 - Algebra-based Physics II

  OR
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Fall	15

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Requirement Select
- ME3010 - Materials & Processes in Mfg

  OR
- MET3100 - Applied Physical Metallurgy

Actual Credits 3

Requirement Select
- MET3303 - CAD for Technology

Actual Credits 3

Requirement Select
- MET3713 - Methods Dsgn/Work Measurement

Actual Credits 3

Requirement Select
- MET3200 - App Electricity & Electronics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring	15

Requirement Select
- ECON3610 - Business Statistics I

  OR
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- MET3003 - Principles of Metal Casting

Actual Credits 3

Requirement Select
- MET3403 - Applied Machine Elements

Actual Credits 3

Requirement Select
- ACCT3720 - Survey of Accounting

Actual Credits 3

Requirement Select
- MET3620 - Intro to Industrial IoT Syst.

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Fall	17

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- MET3150 - Maintenance Technology

Actual Credits 2

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- MET4000 - Advanced Foundry Technology

Actual Credits 3

Requirement Select
- MET4320 - Mixed Reality in Manufacturing

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	15

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MET4420 - Introduction to Additive Mfg

Actual Credits 3

Requirement Select
- MET4520 - Autonomous Robots in Mfg

Actual Credits 3

Requirement Select
- MET4720 - Senior Projects/Smart Manufact

Actual Credits 3

GES-MIN - General Engineering Studies Minor

Program Overview

Program Long Title
General Engineering Studies Minor

College/School
Engineering

Department(s)
Manufact/Indust Systems Engr.

Requirements

Simple Requirements

Minor in General Engineering Studies (15-19 credits)

Type
Completion Requirement

Calculus/Engineering Analysis (3-4 cr.)

Complete at least 1 of the following courses:
- MATH1830 - Applied Calculus
- MATH1845 - Technical Calculus
- MATH1910 - Calculus I
- ENGR1000 - Intro to Engineering Analysis

Computer Programming (2-4 cr.)

Complete at least 1 of the following courses:
- ENGR1120 - Programming for Engineers
- ENGR1300 - Intro/Engineering Computations
- ME1010 - Mechanical Engineering Fundamentals I
- CSC1300 - Intro/Prob Solving-Comp Prog

Engineering Visualization (2-3 cr.)

Complete ANY of the following Courses:
- ENGR1110 - Engineering Graphics
- ME1020 - Mechanical Engineering Fundamentals II

Additional Required Courses (8 cr.)

Complete ALL of the following Courses:
- ENGR1210 - Intro to Engineering
- ENGR2100 - Intro/Engr Communication
- ENGR2400 - Engr Dsgn:Mech,Mat, Mfg Aprch
- ENGR3953 - Special Topics for Non-Engr

ISE-MIN - Industrial and Systems Engineering Minor

Program Overview

Program Long Title
Industrial and Systems Engineering Minor

College/School
Engineering

Department(s)
Manufact/Indust Systems Engr.

Requirements

Simple Requirements

Industrial and Systems Engineering Minor

Type
Completion Requirement

Industrial and Systems Engineering (ISE) Minor consists of 16 credit hours of coursework (13 hrs. of core courses and 3 hrs. of technical electives).

Technical Elective (choose 3 credits from the following): ENGR 4510 - Engineering Management (3 cr. hrs.) ENGR 4993 - Special Problems (3 cr. hrs.)—must be approved by ISE minor coordinator ME 4450 (5450) - Design for Manufacturability (3 cr. hrs.)

Note: MATH 3470 Introductory Probability and Statistics (3 cr. hrs.) may be taken instead of ENGR 3720 (2 cr. hrs.). In this case, the minor will total to 17 cr. hrs.

Complete ALL of the following Courses:
- ENGR3300 - Human Factors Engineering
- ENGR3400 - Operations Research
- ENGR3710 - Principles of Engr Economy
- ENGR3720 - Principles of Engr Statistics
  OR MATH3470 - Intro/Prob & Stats
- ENGR4500 - Reliability & Quality Engr
  OR VE4500 - Reliability & Quality Engr
- ENGR4510 - Engineering Management
  OR ENGR4993 - Special Problems
  OR ME4450 - Design for Manufacturability

Courses

Course Information

Course Title
Intro to Engineering Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
1000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACT Math score of 22 or higher, or equivalent placement exam score, or C or better in MATH 1000. This course introduces the math required in the first two years of most engineering curricula. It is an analysis course that provides a comprehensive introduction to what math topics are used in undergraduate engineering, but it does not provide comprehensive coverage of any single topic. It increases preparation and provides motivation for the required math courses in engineering.

College/School
Engineering

ENGR 1010: Engineering: Fundamentals & Computations

Course Information

Course Title
ENGR Fund. and Computations

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
1010

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
The course will consist of an introduction to engineering concepts and engineering problem solving techniques. This course introduces engineering as well as engineering careers and disciplines Additionally, this course discusses proper handling of units, problem definition, algorithm development, flowcharting, structured programming using a high-level language, and the use of a spreadsheet as a computational tool.

College/School
Engineering

Syllabus
ENGR 1010 Syllabus.pdf

Course Information

Course Title
Connections to Engr & Tech

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
1020

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Engages the student in meaningful academic and non-academic, out-of-the classroom activities involving engineering and technology. Emphasizes critical thinking in the formation of academic and social goals and support groups and in self-management and study skills.

College/School
Engineering

Learning Strategies for Engineers & Technologists

Course Information

Course Title
Learning Strategies for ENGR

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
1030

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
The primary goal is to strengthen the student's connection Tennessee Tech University by focusing on the enhancing the skills needed for academic and non-academic success strategies and to foster a commitment to an engineering or STEM related career. It emphasizes critical thinking in the formation of academic habits and introducing students to important behaviors such as problem solving techniques and useful computational tools.

College/School
Engineering

Syllabus
ENGR 1030_Syllabus 2025.pdf

Course Information

Course Title
Engineering Graphics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
1110

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisites: A minimum ACT Math score of 19 or equivalent placement exam score or consent of the department. Visualization skills and graphic communication techniques for engineers, sketching, computer-aided drafting, and solid modeling, drawing interpretation.

College/School
Engineering

Course Information

Course Title
Programming for Engineers

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
1120

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
4

Other Hours

Min:
0

Course Description
Prerequisites: ACT Math score of 27 or above, or MATH 1720, MATH 1730, MATH 1845, or MATH 1910. Problem definition, algorithm development, flowcharting, and structured programming using a high level language. Using a spreadsheet as a computational tool. MATH 1845 or MATH 1910 can be taken concurrently.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Prerequisite: ACT Math score of 27 or above, or MATH 1720, MATH 1730, MATH 1845, or MATH 1910. **MATH 1845 or MATH 1910 can be taken concurrently.**

Course Information

Course Title
Intro to Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
1210

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
0

Lab Hours

Min:
0

Other Hours

Min:
2

Course Description
Prerequisites: A minimum ACT Math score of 19 or equivalent placement exam score or consent of the department. Introduction to engineering and engineering technology, the engineering problem solving method, engineering design, and engineering ethics.

College/School
Engineering

Course Information

Course Title
Intro-Emrging Tech (GSET)

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
1220

Credit Hours

Credit Hours:
1

Other Hours

Min:
2

Course Description
Introduction to emerging technologies through the Tennessee Governor's School for Emerging Technologies (GSET). Studies, projects, and research activities in emerging technologies. TN Governor's School for Emerging Technologies is by invitation only.

College/School
Engineering

Course Information

Course Title
Intro/Engineering Computations

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
1300

Credit Hours

Credit Hours:
2

Lab Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 1710 or equivalent or consent of instructor. This course introduces several of the computational tools needed in the first two years of most engineering curricula. It is a computing and programming course that provides an introduction to what computational tools are used in undergraduate engineering, but it does not provide comprehensive coverage of any tool. It increases preparation and provides motivation for the required math, science, and engineering science used in engineering.

College/School
Engineering

Course Information

Course Title
Intro/Engr Communication

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
2100

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisite: Minimum grade of C in ENGL 1010; ENGR 1110 or ENGR 1210 or consent of instructor. Introduction to engineering communication in professional and technical contexts. Emphasis on writing technical and professional documents, such as memos, emails, reports, and poster presentations; giving oral presentations; working on teams; technical editing; engineering drawings and technical illustrations; and adapting technical information for different audiences.

College/School
Engineering

Course Information

Course Title
Engr Applications in C++

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
2121

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: ENGR 1120. C++ language programming for engineering applications. Effective use of functions, arrays, pointers and data structures. Modular program design. Program validation and documentation.

College/School
Engineering

Course Information

Course Title
Engr Dsgn:Mech,Mat, Mfg Aprch

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
2400

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: ENGR 1210; either CHEM 1010 or CHEM 1110. This course is a continuation of ENGR 1210. This course introduces the non-engineer to the subject of engineering design. Emphasis is placed on how mechanics, materials, and manufacturing are connected with each other and with engineering design.

College/School
Engineering

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
2991

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Consent of Departmental Chairperson. Special topics in a traditional or nontraditional classroom setting; individual or group research; or faculty-directed readings. May not be repeated to improve grade.

College/School
Engineering

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
2993

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Consent of Departmental Chairperson. Special topics in a traditional or nontraditional classroom setting, individual or group research; or faculty-directed readings. May not be repeated to improve grade.

College/School
Engineering

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
2992

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Consent of Departmental Chairperson. Special topics in a traditional or nontraditional classroom setting, individual or group research; or faculty-directed readings. May not be repeated to improve grade.

College/School
Engineering

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
2994

Credit Hours

Credit Hours:
4

Other Hours

Min:
4

Course Description
Prerequisite: Consent of Departmental Chairperson. Special topics in a traditional or nontraditional classroom setting, individual or group research; or faculty-directed readings. May not be repeated to improve grade.

College/School
Engineering

Course Information

Course Title
Numerical Methods

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: MATH 1920 and C or better in CSC 1310 or CSC 2100 or ENGR 1120. Linear and non-linear equations; convergence and error analysis; quadrature; interpolation; numerical differentiation and integration; first order differential equations; boundary value problems; and approximation of functions.

College/School
Engineering

Course Information

Course Title
Solid Modeling

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
3120

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: ENGR 1110, ENGR 1120, CEE 3110 (CEE 3110 may be taken concurrently). Introduction to computer-aided 3D solid modeling.

College/School
Engineering

Course Information

Course Title
Human Factors Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
3300

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: ENGR 3720 or MATH 3470. Principles and applications of Huma Factors (Ergonomics). Principles in the design of industrial systems and facilities. Human Factors design guide. Human limitations and capabilities in product design and workspace layout. Work environment impact on the workforce performance. OSHA and current standards. Accessibility and handicapped considerations.

College/School
Engineering

Course Information

Course Title
Operations Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
3400

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: ENGR 3720 or MATH 3470. Principles and techniques of Operations Research. Emphasis on the applications of optimization models in improving the performance and design of components and systems. Problem solving using linear programming, integer programming, network theory, Markov processes, inventory models, queuing theory, dynamic programming, and sensitivity analysis.

College/School
Engineering

Course Information

Course Title
Principles of Engr Economy

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
3710

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: MATH 1920. Concepts and techniques useful in the economic evaluation of engineering alternatives

College/School
Engineering

Course Information

Course Title
Principles of Engr Statistics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
3720

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: MATH 1920. Engineering applications of probability, hypothesis testing and confidence intervals.

College/School
Engineering

Course Information

Course Title
Intrnshps/Exchng Stu-Col of EN

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
3851

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Consent of Instructor. Directed study and research on selected areas for international students while participating in an exchange program at Tennessee Technological University.

College/School
Engineering

Course Information

Course Title
Intrnshps/Exchng Stu-Col of EN

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
3852

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Consent of Instructor. Directed study and research on selected areas for international students while participating in an exchange program at Tennessee Technological University.

College/School
Engineering

Course Information

Course Title
Special Topics for Non-Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
3951

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Departmental approval. Timely topics in engineering and technology¿the relationships to other professions. This course may not be used to earn credit toward an engineering degree.

College/School
Engineering

Course Information

Course Title
Intrnshps/Exchng Stu-Col of EN

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
3853

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Consent of Instructor. Directed study and research on selected areas for international students while participating in an exchange program at Tennessee Technological University.

College/School
Engineering

Course Information

Course Title
Special Topics for Non-Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
3952

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Departmental approval. Timely topics in engineering and technology¿the relationships to other professions. This course may not be used to earn credit toward an engineering degree.

College/School
Engineering

Course Information

Course Title
Special Topics for Non-Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
3953

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Departmental approval. Timely topics in engineering and technology¿the relationships to other professions. This course may not be used to earn credit toward an engineering degree.

College/School
Engineering

Course Information

Course Title
Reliability & Quality Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 3470 or ENGR (CEE) 3720. Basic engineering and statistics principles as well as advanced tools focusing on design of experiment, statistical process control and reliability engineering are presented. Theoretical and practical methods to improve the capability of systems to perform their designated functionalities, to predict the probability of their functioning without failures in certain environments for desired periods, to assess their maintainability, availability and safety based on sampled data, and to make decisions on corrective and mitigation.

College/School
Engineering

Course Information

Course Title
Engineering Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Senior standing in an engineering discipline. Management theory applied to engineering and technical organizations. Topics include management functions in an engineering context; engineering techniques and tools for management; project management; management/leadership of technical people and teams; and contemporary engineering management topics, e.g., rapid technological change and globalization.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Senior standing in and Engineering discipline.

Course Information

Course Title
Mechanical Engineering Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4750

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Prerequisite: ME 3010, ME 3210, ME 3023, ME 3720. Basic instrumentation, lab experimentation, measurements and evaluation related to the disciplines in Mechanical Engineering.

College/School
Engineering

Course Information

Course Title
FE Exam Review

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4810

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Review of FE exam topics focusing on those in General Engineering (NCEES-Other Disciplines). Overview of main concepts, examples, and extensive practice problems.

College/School
Engineering

Syllabus
ENGR 4810 - FE Exam Review ETSU.docx

Requisites and Restrictions

Prerequisite:
Senior standing.

Course Information

Course Title
Intrntl Exper/Col of Engr Stu

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4851

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Consent of instructor. Directed study and research on selected areas while participating in international experience as a Tennessee Technological University College of Engineering Student.

College/School
Engineering

Course Information

Course Title
Intrntl Exper/Col of Engr Stu

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4852

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Consent of instructor. Directed study and research on selected areas while participating in international experience as a Tennessee Technological University College of Engineering Student.

College/School
Engineering

Course Information

Course Title
Intrntl Exper/Col of Engr Stu

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4853

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Consent of instructor. Directed study and research on selected areas while participating in international experience as a Tennessee Technological University College of Engineering Student.

College/School
Engineering

Course Information

Course Title
Engr Design, Profesm, Ethics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4900

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: CEE 3110, ME 3010, ENGR 3120, ENGR (CEE 3710), and Senior Standing in Engineering. Engineering design, process. Professional, social and ethical issues in engineering practice.

College/School
Engineering

Course Information

Course Title
Senior Design I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4950

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ECE 2140, ME 3023, ME 3210, Senior Standing. The first in a sequence of two capstone design project courses. Student teams will complete an industry client-driven system design project. Teamwork, leadership, project planning and management, specification, budgeting, design review, subsystem development, testing, weekly reporting, documentation, and oral presentation.

College/School
Engineering

Course Information

Course Title
Senior Design II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4960

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: ENGR 4950. The second in a sequence of two senior capstone design project courses. Student teams will complete and industry client-driven system design project. Teamwork, leadership, project planning and management, specification, budgeting, design review, implementation, testing, weekly reporting, documentation, and oral presentation.

College/School
Engineering

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4991

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Consent of Departmental Chairperson. Special topics in a traditional or nontraditional classroom setting, individual or group research; or faculty-directed readings. May not be repeated to improve grade.

College/School
Engineering

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4992

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Consent of Departmental Chairperson. Special topics in a traditional or nontraditional classroom setting, individual or group research; or faculty-directed readings. May not be repeated to improve grade.

College/School
Engineering

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4994

Credit Hours

Credit Hours:
4

Other Hours

Min:
4

Course Description
Prerequisite: Consent of Departmental Chairperson. Special topics in a traditional or nontraditional classroom setting, individual or group research; or faculty-directed readings. May not be repeated to improve grade.

College/School
Engineering

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ENGR

Course Number
4993

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Consent of Departmental Chairperson. Special topics in a traditional or nontraditional classroom setting, individual or group research; or faculty-directed readings. May not be repeated to improve grade.

College/School
Engineering

Course Information

Course Title
Intro to Mfg Engr Tech

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
1100

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Introduction to the materials and processes used in the manufacturing of metals, ceramics, polymers, composites and wood products.

College/School
Engineering

Course Information

Course Title
Intro to MET & Engr Ethics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
1115

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Introduction to the materials and processes used in the manufacturing of metals, ceramics, polymers, composites, and wood products. Included will be the examination of values and ethics of a technological society and the input of engineering in the decision making process of a technological organization.

College/School
Engineering

Course Information

Course Title
Apps of Math in Engr Tech Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
1835

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisites: MATH 1910 or MATH 1845. Use of integral and differential calculus with numerical applications for engineering technology.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 1910 or MATH 1845.

Course Information

Course Title
Occupational Safety

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
2000

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Occupational safety and health hazards associated with man-machine systems with emphasis on recognition, evaluation, and control of such hazards.

College/School
Engineering

Course Information

Course Title
Metal Manufacturing Technology

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
2065

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ENGR 1110, MET 1115 and MATH 1730 or MATH 1710 and MATH 1720 or MATH 1910. Machine tool functions, use of hand tools, precision measurement, welding and fabrication of metals.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ENGR 1110, MET 1100 and MATH 1730 or MATH 1710 and MATH 1720 or MATH 1910.

Course Information

Course Title
Statics/Strengths of Materials

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
2400

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MATH 1730 or MATH 1710 and MATH 1720 or MATH 1910 and PHYS 2010 or PHYS 2110.. This course is an introduction to concurrent force analyses, stresses, strains and combined stresses in structures and machine components.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 1730 or MATH 1710 and MATH 1720 or MATH 1910 and PHYS 2010 or PHYS 2110 .

Course Information

Course Title
Engr Tech Ethics/Profsnlsm

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
2615

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Prerequisite: Sophomore Standing. This course reexamines the values and ethics of a technological society and the input of the technologist into the decision making process of a technological organization.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Sophomore Standing.

Course Information

Course Title
Aviation Ground Instruction I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
2640

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Basic theory and principles of flight, aircraft systems, and material for instruments. Completion of Ground School Certification Examination.

College/School
Engineering

Course Information

Course Title
Aviation Flight Instruction

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
2650

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: MET 2640 or consent of instructor. This course will cover only the aeronautical knowledge and skills necessary to meet the requirements of a Private Pilot FAA Certificate. To meet FAA flight requirements, student should arrange and pay for their own flight lessons.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 2640.

Course Information

Course Title
Principles of Metal Casting

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3003

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: ENGR 1110, MET 1115 and ME 3010 or MET 3100. ME 3010 or MET 3100 may be taken concurrently. Principles of molding and casting aluminum, brass and gray iron. Use of cores, patterns, machine molding, and solidification modeling. Restricted to MET Majors

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ENGR 1110, MET 1100 and ME 3010 or MET 3100. MET 3010 or MET 3100 may be taken concurrently.

Course Information

Course Title
Comp Num Cont Mchng Prct

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3060

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ENGR 1120 or CSC 1300 and MET 2065. Theory of numerical control equipment and programming for machine setup and operation of CNC milling and turning equipment.

College/School
Engineering

Course Information

Course Title
Plastics Processing & Apps

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3080

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: Junior standing, CHEM 1010, or consent of instructor. Studies in the use of plastic-related products with laboratory activities.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Junior Standing and CHEM 1010.

Course Information

Course Title
Applied Physical Metallurgy

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3100

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 1115, CHEM 1010 or 1110. A study of the relationships between chemical compositions and structures on the properties of ferrous, non-ferrous metals and alloys used in manufacturing industry.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 1100, CHEM 1010 or CHEM 1110.

Course Information

Course Title
Maintenance Technology

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3150

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Junior Standing. Principles of organizing and controlling maintenance operations in industrial plants.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
App Electricity & Electronics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3200

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MATH 1845 or MATH 1910 and PHYS 2020 or PHYS 2120. PHYS 2020 or PHYS 2120 may be taken concurrently. Fundamentals of electricity and electronics, basic circuits, motors, generators and power distribution, advanced electronic circuits, semiconductors and power supplies, electronic communication and data systems.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 1845 or MATH 1910 and PHYS 2020 or PHYS 2120. PHYS 2020 or PHYS 2120 may be taken concurrently.

Course Information

Course Title
Industrial Electronics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3260

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 3200 or departmental approval. The fundamentals of process control, transducers, signal processing, feedback loops, activators, and analog and digital controllers.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3200 or departmental approval.

Course Information

Course Title
Industrial Electronics & PLCs

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3270

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: MET 3200. The fundamentals of process control, transducers, signal processing, feedback loops, activators, analog and digital controllers and PLCs.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3200.

Course Information

Course Title
CAD for Technology

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3303

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ENGR 1110. 2D CAD and 3D Solid Modeling techniques for industrial applications with laboratory experiences. Restricted to MET Majors.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ENGR 1110.

Course Information

Course Title
Applied Machine Elements

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3403

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: MET 2400 and MET 3301 or MET 3303. Static and dynamic properties of materials. Principles of machine elements calculations, components selection, assembly, and lubrication.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 2400 and MET 3301 or MET 3303.

Corequisite:
ME 3110 or MET 3100.

Course Information

Course Title
Welding Technology

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3460

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: Junior standing. Welding materials using current welding processes and techniques.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Advanced Welding

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3560

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 2063. An in-depth experience in welding and inspection procedures.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 2065.

Course Information

Course Title
Intro to Industrial IoT Syst.

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3620

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: ENGR 1120 and MET 3200. Introduction to Industrial Internet of Things (IIoT) devices, networks, and standards in the context of industrial automation systems. Topics include: hardware, architecture, protocols, standards, and security practices.

College/School
Engineering

Course Information

Course Title
Manufacturing Cost Estimating

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3703

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: Junior Standing. This is an experiential learning course where the students participate in solving an industrial problem. This course requires the application of computer-aided design, bill of materials, manufacturing processes, process design, writing a report, and presentation of results. Restricted to MET Majors.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 2615 and MET 2065.

Course Information

Course Title
Methods Dsgn/Work Measurement

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3713

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: Junior Standing. Introduction to concepts and the practice of methods improvement and work measurement for lean manufacturing. Restricted to MET Majors.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 2000, MET 2065, and MET 2615.

Course Information

Course Title
Six Sigma Tools

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
3740

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Junior Standing. Using Lean Six Sigma tools and techniques for enabling optimal performance in service industries including healthcare and distribution, manufacturing companies, and government.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Advanced Foundry Technology

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4000

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 3000 or MET 3003. Study of advanced foundry processes, gating system design, die/pattern design and mechanization of foundry.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3000 or MET 3003.

Course Information

Course Title
Technical Communications

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Senior standing or consent of instructor. The basic methods used in industrial communications as related to technology with an emphasis on oral and written communications.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Senior Standing.

Course Information

Course Title
CNC Concepts, Adv Techq & App

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4060

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 3060 or departmental approval. An in-depth study of programming systems, techniques and applications.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3060 or departmental approval.

Course Information

Course Title
Process and Control Apps

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4120

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: MET 3270. Proportional, Integral, Derivative (PID) Control, loop modeling, transfer functions, PID design, implementation and tuning. Course laboratories focus on implementing and tuning systems using industry-grade hardware and devices.

College/School
Engineering

Course Information

Course Title
Maintenance Technology II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4140

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 3130 or departmental approval. Applied maintenance techniques and procedures utilized to insure continued operation of production machines and auxiliary equipment.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3150 or departmental approval.

Course Information

Course Title
Prog Logic Contr/Proc Control

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4210

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 4200 or departmental approval. Programmable logic controllers (PLC's) and automated process control; design and implementation of an automatic controlled industrial process.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3260 or departmental approval.

Course Information

Course Title
Industrial Automation/Robotics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4220

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 3200. Studies in the theory and application of industrial automation relating to manufacturing.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3260.

Course Information

Course Title
Applied Mechatronics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4250

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 3200 or consent of instructor. Introduction to mechatronic systems; modeling of mixed mechatronic systems; microcontroller programming and interfacing; theory, selection and implementation of sensors and actuators commonly used in mechatronic systems; control architectures and case studies in mechatronic systems.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3260 or consent of instructor.

Course Information

Course Title
Advanced CAD Techniques

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4300

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 3301 or departmental approval. An in-depth course using CAD as a design tool that examines multiview drawings, layers, dimensioning, blocks, and sectional views.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3303 or departmental approval.

Course Information

Course Title
Plant Layout/Mtrl Handling

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4310

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 3303 and MET 3713. An analysis of materials movement within industrial organizations.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3303, MET 3713 or departmental approval.

Course Information

Course Title
Mixed Reality in Manufacturing

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4320

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: MET 3620. Mixed Reality (MR) application in industrial IoT(IIoT)-based manufacturing systems, superimposing digital content onto physical systems, integrating data from smart and connected manufacturing production operations, processes, and machines.

College/School
Engineering

Course Information

Course Title
Geometric Dimension/Tolerance

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4400

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 3301 or departmental approval. This course will cover the geometric conformance and tolerancing theory and application pertaining to ANSI/ASME 2009 Y 14.5 Standard via computer graphics and other electronic data systems for design, manufacture, verification, and similar processes.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3303 or departmental approval.

Course Information

Course Title
Introduction to Additive Mfg

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4420

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: MET 3620. Additive manufacturing process and material selection, design for additive manufacturing, support structure generation, printing process planning, and quality control techniques, such as monitoring, inspection, and surface modification.

College/School
Engineering

Course Information

Course Title
Industrial Supervision

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Senior or graduate standing. Supervisory responsibilities in an organization and procedures for meeting these responsibilities.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Senior or Graduate Standing.

Course Information

Course Title
Additive Manufacturing

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4450

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 3301. This course prepares students to create a rapid prototyping file from a computer aided design file, determine the prototype for the model or part, and create a production plan for the part.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3303 or departmental approval.

Course Information

Course Title
Tool Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4500

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 2063 and MET 3301 or departmental approval. This course covers an integrated treatment of tool design, specification and application by the use of standard tooling data.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 2065, MET 3303 or departmental approval.

Course Information

Course Title
Autonomous Robots in Mfg

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4520

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: MET 4320. Robot cognition with application of robot systems in unstructured manufacturing environments, intelligent robotics, machine vision, and human-robot interaction with particular emphasis on applications for smart manufacturing.

College/School
Engineering

Course Information

Course Title
Mntnce, Rplcmnt, Rlblty Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Senior or graduate standing in engineering, engineering technology or business.Reliability networks, failure mode and effect analysis, apportionment, availability, maintainability, fault trees and human reliability. Design project required.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Senior or Graduate Standing in Engineering, Engineering Technology or Business.

Course Information

Course Title
Product Design & Development

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: Senior or graduate standing in engineering, engineering technology or business. This is a project-based course that covers modern tools and methods for product design and development. Topics include identifying customer needs, concept generation, product architecture, industrial design, and design-for-manufacturing.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Senior or Graduate Standing in Engineering, Engineering Technology or Business.

Course Information

Course Title
Senior Projects

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4620

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MET 3260 and MET 3403 or departmental approval. This course is the capstone experience, which requires both teamwork and individual skills in identifying and solving an industrial problem. It requires the application of design, manufacturing processing, project management plan, and public presentation of results.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3403.

Course Information

Course Title
Lean Six Sigma Mfg

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4650

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: Senior or graduate standing in engineering, engineering technology or business.Review of current engineering and technology techniques relevant to manufacturing, service, quality and productivity. Design project required.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Senior or Graduate Standing in Engineering, Engineering Technology or Business.

Course Information

Course Title
Automation/ Mfg Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4700

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Senior or graduate standing in engineering or engineering technology. General principles of operation and programming of automated systems. Automated assembly, automated manufacturing, and inspection systems. Control of automated manufacturing. Industrial logic systems and programmable logic controllers. Computer numerical control, industrial robotics, and computer integrated manufacturing.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Senior or Graduate Standing in Engineering or Engineering Technology.

Course Information

Course Title
Senior Projects/Smart Manufact

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4720

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
This course is the capstone experience, which requires both teamwork and individual skills in identifying and solving a smart manufacturing problem. It requires the application of design, manufacturing, analysis, project management, and public presentation of results.

College/School
Engineering

Syllabus
12a Manufacturing and Engineering Technology - Syllabus.docx

Requisites and Restrictions

Prerequisite:
MET 3620

Corequisite:
MET 4520.

Course Information

Course Title
IIoT for Smart Manufacturing

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4750

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: MET 3260 and MET 4220. Concepts of IIoT and smart manufacturing (Industry 4.0). Connection and programming of popular IoT devices for data acquisition and analytics. Basic knowledge of industrial network security.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MET 3260 and MET 4220 (5220).

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
MET

Course Number
4990

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
Yes

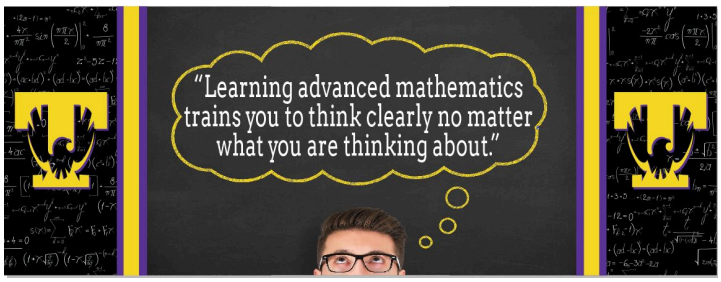
Course Description
Prerequisite: Senior standing. Investigations of industrial topics in the student's area of interest. May be taken under different subtitles to a maximum of six credits. A particular topic may be offered at most twice under the MET 4990 number.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Senior Standing.

Mathematics Department



Professor Chambers, Chair; Professors Allen, Le Borne, Liu, Machida, Shibakov, D. Smith; Associate Professors Davis, Hetzel, Kubiak, O'Connor; Assistant Professors Harden, Pechmann; Instructors Brachey, Duvier, Elliott, Gandhi, Narimetla; Lecturers Brown, Copeland, Daniels, Kennon, Rogers, W. Smith, Swafford

The Department of Mathematics offers a well-balanced curriculum that can prepare students for immediate entry into the workforce or for further study at the graduate level. The curriculum provides students with a solid foundation in mathematics while offering flexibility in course selection. Students can prepare for many different careers in business, industry, education, and government. Among the alumni of the department are teachers, professors, lawyers, financial professionals, insurance industry executives, software engineers, as well as researchers and administrators in the defense industry and NASA.

Five optional concentrations of courses are available: Actuarial Science, Applied Mathematics, Pure Mathematics, Statistics and Data Science, and Mathematics for Secondary Education. However, a student is not obligated to follow any of these five tracks concentrations. Their academic advisor can help them develop a course of study appropriate for their individual career goals. Also, students interested in pursuing a Master's degree in mathematics can apply for entry into the BS/MS Mathematics Fast Track program and begin graduate mathematics coursework as an undergraduate student. Fast Track students earn both graduate and undergraduate credit for the graduate courses taken, similar to dual credit courses in high school.

Programs

MATH-BS - Mathematics, B.S.

Program Overview

Program Long Title
Mathematics, B.S.

College/School
Arts and Sciences

Department(s)
Mathematics

Requirements

Simple Requirements

Mathematics, B.S. (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression - Literature (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (3 hours)

Earn at least 3 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Mathematics, B.S. Core

Complete ALL of the following Courses:
- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2010 - Introduction to Linear Algebra
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3400 - Intro/Concepts of Math
- MATH3810 - Complex Variables
- MATH4010 - Modern Algebra I
- MATH4530 - Linear Algebra I
- MATH4470 - Probability & Statistics I
- MATH4110 - Advanced Calculus I
- MATH3430 - College Geometry
  OR MATH4310 - Intro to Topology I
  OR MATH4410 - Differential Geometry

Mathematics, B.S. Core

MATH- Required Sequences

Upper Division Mathematics courses (3000 or higher). The student must complete three Upper-Division sequences: one sequence each from Applied Mathematics and Pure Mathematics; and a third sequence taken from either Applied or Pure.

Applied Mathematics Sequence List: MATH 3070MATH 3080; MATH 4050 (5050); MATH 4060 (5060); MATH 4210 (5210)-MATH 4220 (5220); MATH 4250 (5250)-MATH 4260 (5260); MATH 4550 (5550); MATH 4560 (5560); two of the three: MATH 4350 (5350), MATH 4360 (5360) or MATH 4050 (5050); and MATH 4470 (5470)-MATH 4480 (5480).

Pure Mathematics Sequence List: MATH 4010 (5010)-MATH 4020 (5020); MATH 4110 (5110)-MATH 4120 (5120); MATH 4310 (5310)-MATH 4320 (5320); MATH 4530 (5530)-MATH 4540 (5540); and MATH 4850 (5850)-MATH 4860 (5860).

Complete three (3) Sequences
The approved sequences are organized into Pure Mathematics and Applied Mathematics categories as shown below. The student must complete at least one sequence from each category. Depending upon which Upper-Division sequences are chosen, a student will need to take between 9 and 18 credit hours of Upper-Division Mathematics classes in addition to the Mathematics courses specifically listed as required in the curriculum.

Additional Program Requirements

Scientific Reasoning Sequence (8 hours)

Scientific Reasoning Sequence - 8 credit hours chosen from the TTU Flight Foundation Core Courses in Scientific Reasoning. These credit hours must come from two 4-credit hour courses in the same discipline. The possible disciplines are ASTR, BIOL, CHEM, GEOL/GEOG, and PHYS.

Additional Program Requirements

Complete ALL of the following Courses:

- CSC1300 - Intro/Prob Solving-Comp Prog
  OR ENGR1120 - Programming for Engineers
- ELECTIVE - Elective Credit

Additional free electives (27-29 hours) are required to complete 120 earned hours.

Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Mathematics, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- Elective
  (Generic)

Actual Credits 3

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- MATH1910 - Calculus I

Actual Credits 4

Requirement Select

- Approved Scientific Reasoning Sequence
  (Generic)

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select

- Elective
  (Generic)

Actual Credits 3

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- MATH1920 - Calculus II

Actual Credits 4

Requirement Select

- Approved Scientific Reasoning Sequence (4 cr)
  (Generic)

Actual Credits 4

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select

- CSC1300 - Intro/Prob Solving-Comp Prog
  OR
- ENGR1120 - Programming for Engineers

Actual Credits 4

Requirement Select

- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select

- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select

- MATH2110 - Calculus III

Actual Credits 4

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select

- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- MATH3400 - Intro/Concepts of Math

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- Elective
  (Generic)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MATH3810 - Complex Variables

Actual Credits 3

Requirement Select
- MATH4470 - Probability & Statistics I

Actual Credits 3

Requirement Select
- MATH4530 - Linear Algebra I

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Elective
  (Generic)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MATH4010 - Modern Algebra I

Actual Credits 3

Requirement Select
- MATH, B.S. - Pure Math Sequence (3 cr)
  (Generic)

Actual Credits 3

Requirement Select
- MATH3430 - College Geometry
  OR
- MATH4410 - Differential Geometry
  OR
- MATH4310 - Intro to Topology I

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Elective
  (Generic)

Actual Credits 9

Requirement Select
- MATH4110 - Advanced Calculus I

Actual Credits 3

Requirement Select
- MATH, B.S. - Applied Math Sequence

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- Electives
  (Generic)

Actual Credits 6

Requirement Select
- Math elective (3000-4000 level)
  (Generic)

Actual Credits 6

Requirement Select

- ** Upper Division Mathematics courses (3000 or higher). The student must complete three Upper-Division sequences. The approved sequences are organized into Pure Mathematics and Applied Mathematics categories as shown below. The student must complete at least one sequence from each category. Depending upon which Upper-Division sequences are chosen, a student will need to take between 9 and 18 credit hours of Upper-Division Mathematics classes in addition to the Mathematics courses specifically listed as required in the curriculum. (Generic)

Actual Credits -

Requirement Select

- Applied Mathematics Sequence List: MATH 3070MATH 3080; MATH 4050 (5050); MATH 4060 (5060); MATH 4210 (5210)-MATH 4220 (5220); MATH 4250 (5250)-MATH 4260 (5260); MATH 4550 (5550); MATH 4560 (5560); two of the three: MATH 4350 (5350), MATH 4360 (5360) or MATH 4050 (5050); and MATH 4470 (5470)-MATH 4480 (5480). Pure Mathematics Sequence List: MATH 4010 (5010)-MATH 4020 (5020); MATH 4110 (5110)-MATH 4120 (5120); MATH 4310 (5310)-MATH 4320 (5320); MATH 4530 (5530)-MATH 4540 (5540); and MATH 4850 (5850)-MATH 4860 (5860). (Generic)

Actual Credits -

MATH-MAAP - Mathematics, Applied Mathematics Concentration, B.S.

Program Overview

Program Long Title

Mathematics, Applied Mathematics Concentration, B.S.

College/School

Arts and Sciences

Department(s)

Mathematics

Requirements

Simple Requirements

Mathematics, Applied Mathematics Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundaitons(6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression (3 hours)

Complete ANY of the following Courses:

- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (3 hours)

Earn at least 3 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Mathematics, Applied Mathematics Concentration Core

Complete ALL of the following Courses:

- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2010 - Introduction to Linear Algebra
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3400 - Intro/Concepts of Math
- MATH3810 - Complex Variables
- MATH4010 - Modern Algebra I
- MATH4530 - Linear Algebra I
- MATH4470 - Probability & Statistics I
- MATH4110 - Advanced Calculus I
- MATH3430 - College Geometry
  OR MATH4310 - Intro to Topology I
  OR MATH4410 - Differential Geometry
- MATH4210 - Numerical Analysis I
- MATH4220 - Numerical Analysis II
- MATH4510 - Adv Math for Engineers

Mathematics, Applied Mathematics Concentration Core

Mathematics Sequences (2 sequences required):

Pure Mathematics Sequence List (2 Classes): MATH 4010 (5010)-MATH 4020 (5020); MATH 4110 (5110)-MATH 4120 (5120); MATH 4310 (5310)-MATH 4320 (5320); MATH 4530 (5530)-MATH 4540 (5540) (Recommended); or MATH 4850 (5850)-MATH 4860 (5860).

Applied Mathematics Sequence List (2 classes): MATH 3070-MATH 3080, MATH 4050 (5050)-MATH 4060 (5060); MATH 4250 (5250)-MATH 4260 (5260); MATH 4470 (5470)-MATH 4480 (5480); MATH 4550 (5550)-MATH 4560 (5560); or any two of the three: MATH 4050 (5050), MATH 4350 (5350), or MATH 4360 (5360).

Additional Program Requirements

Science Sequence (8 hours):

Scientific Reasoning Sequence - 8 credit hours chosen from the TTU General Education Core Courses in Scientific Reasoning. These credit hours must come from two 4-credit hour courses in the same discipline. The possible disciplines are ASTR, BIOL, CHEM, GEOL/GEOG, and PHYS.

Additional Program Requirements

Complete ALL of the following Courses:

- CSC1300 - Intro/Prob Solving-Comp Prog
  OR ENGR1120 - Programming for Engineers
- ELECTIVE - Elective Credit

Additional free electives (18-20 hours) are required to complete 120 earned hours.

Flight Foundation Core - Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Mathematics, Applied Mathematics Concentration. B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	-	31

Requirement Select

- ASTR1010 - Intro to Modern Astronomy I
- **AND** ASTR1020 - Intro to Modern Astronomy II
  OR
- BIOL1010 - Introduction to Biology
- **AND** BIOL1020 - Diversity of Life
  OR
- BIOL1113 - General Biology I
- **AND** BIOL1123 - General Biology II
  OR
- BIOL1113 - General Biology I
- **AND** BIOL2310 - General Botany
  OR
- CHEM1010 - Introductory Chemistry I
- **AND** CHEM1010 - Introductory Chemistry I
  OR
- CHEM1110 - General Chemistry I
- **AND** CHEM1110 - General Chemistry I
  OR
- GEOL1040 - Physical Geology
- **AND** GEOL1045 - Earth Environ Resrces Soc
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- **AND** PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 8

Requirement Select

- Elective Credits (6)
  (Generic)

Actual Credits 6

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	-	32 - 30

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog
  OR
- ENGR1120 - Programming for Engineers

Actual Credits 4 - 2

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- MATH3400 - Intro/Concepts of Math

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	-	30

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MATH3430 - College Geometry
  OR
- MATH4410 - Differential Geometry
  OR
- MATH4310 - Intro to Topology I

Actual Credits 3

Requirement Select
- MATH3810 - Complex Variables

Actual Credits 3

Requirement Select
- MATH4010 - Modern Algebra I

Actual Credits 3

Requirement Select
- MATH4210 - Numerical Analysis I

Actual Credits 3

Requirement Select
- MATH4470 - Probability & Statistics I

Actual Credits 3

Requirement Select
- MATH4530 - Linear Algebra I

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	-	27 - 29

Requirement Select
- Elective Credits (9)
  (Generic)

Actual Credits 6 - 8

Requirement Select
- MATH4110 - Advanced Calculus I

Actual Credits 3

Requirement Select
- MATH4220 - Numerical Analysis II

Actual Credits 3

Requirement Select
- MATH4510 - Adv Math for Engineers

Actual Credits 3

Requirement Select
- Mathematics Credit (12)
  (Generic)

Actual Credits 12

Requirement Select
- Upper-division mathematics courses (3000 or higher). The student must complete upper-division sequences. The approved sequences are organized into pure mathematics and applied mathematics categories as shown below. The student must complete at least one sequence from each category. Pure Mathematics Sequence List:MATH 4010 (5010)-MATH 4020 (5020), MATH 4110 (5110)-MATH 4120 (5120), MATH 4310 (5310)-MATH 4320 (5320), MATH 4530 (5530)-MATH 4540 (5540); or MATH 4850 (5850)-MATH 4860 (5860). Applied Mathematics Sequence List: MATH 3070- MATH 3080, MATH 4050 (5050)-MATH 4060 (5060); MATH 4250 (5250)-MATH 4260 (5260); MATH 4470 (5470)-MATH 4480 (5480); MATH 4550 (5550)-MATH 4560 (5560); or any two of the three: MATH 4050 (5050), MATH 4350 (5350), or MATH 4360 (5360).
  (Generic)

Actual Credits -

MATH-MASD - Mathematics, Statistics and Data Science Concentration, B.S.

Program Overview

Program Long Title
Mathematics, Statistics and Data Science Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Mathematics

Requirements

Simple Requirements

Mathematics, Statistics and Data Science Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (3 hours)

Earn at least 3 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Mathematics, Statistics and Data Science Concentration Core

Complete ALL of the following Courses:

- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2010 - Introduction to Linear Algebra
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3070 - Statistical Methods I
- MATH3080 - Statistical Methods II
- MATH3400 - Intro/Concepts of Math
- MATH3810 - Complex Variables
- MATH4530 - Linear Algebra I
- MATH4470 - Probability & Statistics I
- MATH4480 - Probability & Statistics II
- MATH4110 - Advanced Calculus I
- MATH3430 - College Geometry
  OR MATH4310 - Intro to Topology I
  OR MATH4410 - Differential Geometry
- MATH4010 - Modern Algebra I

Mathematics, Statistics and Data Science Concentration Core

Pure Math Sequence

Upper-division mathematics courses (3000 or higher). The student must complete at least one sequence from Pure Mathematics Sequence List: MATH 4010 (5010)-MATH 4020 (5020), MATH 4110 (5110)-MATH 4120 (5120), MATH 4310 (5310)-MATH 4320 (5320), MATH 4530 (5530)-MATH 4540 (5540) (Recommended); or MATH 4850 (5850)-MATH 4860 (5860).

Additional Program Requirements

Scientific Reasoning Sequence (8 hours)

Scientific Reasoning Sequence (8 hrs.) 8 credit hours chosen from the TTU Flight Foundation Core Courses in the Scientific Reasoning. These credit hours must come from two 4-credit hour courses in the same discipline. The possible disciplines are ASTR, BIOL, CHEM, GEOL/GEOG, and PHYS.

Additional Program Requirements

Complete ALL of the following Courses:

- CSC1300 - Intro/Prob Solving-Comp Prog
- CSC1310 - Data Structures and Algorithms
- CSC2220 - Data Science & AI for Everyone
- CSC2310 - Object-Oriented Prgrming/Dsgn
- CSC3220 - Fundamentals of Data Science
- CSC3300 - Database Mgmt Systems
- CSC4220 - Data Mining/Machine Learning
- CSC4260 - Adv Data Sci & Applications
- ELECTIVE - Elective Credit

Additional free elective (0-2 credits) may be required to complete 120 earned hours.

Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Mathematics, Statistics and Data Science Concentration. B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	-	30

Requirement Select

- ASTR1010 - Intro to Modern Astronomy I
- **AND** ASTR1020 - Intro to Modern Astronomy II
  OR
- BIOL1010 - Introduction to Biology
- **AND** BIOL1020 - Diversity of Life
  OR
- BIOL1113 - General Biology I
- **AND** BIOL1123 - General Biology II
  OR
- BIOL1113 - General Biology I
- **AND** BIOL2310 - General Botany
  OR
- CHEM1010 - Introductory Chemistry I
- **AND** CHEM1020 - Introductory Chemistry II
  OR
- CHEM1110 - General Chemistry I
- **AND** CHEM1120 - General Chemistry II
  OR
- GEOL1040 - Physical Geology
- **AND** GEOL1045 - Earth Environ Resrces Soc
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- **AND** PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 8

Requirement Select

- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select

- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	-	31

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- MATH3400 - Intro/Concepts of Math

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	-	31

Requirement Select
- CSC2220 - Data Science & AI for Everyone

Actual Credits 3

Requirement Select
- CSC2310 - Object-Oriented Prgrming/Dsgn

Actual Credits 4

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- MATH3080 - Statistical Methods II

Actual Credits 3

Requirement Select
- MATH3430 - College Geometry
  OR
- MATH4310 - Intro to Topology I
  OR
- MATH4410 - Differential Geometry

Actual Credits 3

Requirement Select
- MATH3810 - Complex Variables

Actual Credits 3

Requirement Select
- MATH4470 - Probability & Statistics I

Actual Credits 3

Requirement Select
- MATH4480 - Probability & Statistics II

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	-	28

Requirement Select
- Elective (0 - 3)
  (Generic)

Actual Credits 1

Requirement Select
- MATH-Upper Division Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- Upper-division mathematics courses (3000 or higher). The student must complete at least one sequence from Pure Mathematics Sequence List: MATH 4010 (5010)-MATH 4020 (5020), MATH 4110 (5110)-MATH 4120 (5120), MATH 4310 (5310)-MATH 4320 (5320), MATH 4530 (5530)-MATH 4540 (5540) (Recommended); or MATH 4850 (5850)-MATH 4860 (5860).
  (Generic)

Actual Credits -

Requirement Select
- MATH4110 - Advanced Calculus I

Actual Credits 3

Requirement Select
- MATH4530 - Linear Algebra I

Actual Credits 3

Requirement Select
- MATH4010 - Modern Algebra I

Actual Credits 3

Requirement Select
- CSC3220 - Fundamentals of Data Science

Actual Credits 3

Requirement Select
- CSC3300 - Database Mgmt Systems

Actual Credits 3

Requirement Select
- CSC4220 - Data Mining/Machine Learning

Actual Credits 3

Requirement Select
- CSC4260 - Adv Data Sci & Applications

Actual Credits 3

MATH-MATA - Mathematics, Actuarial Science Concentration, B.S.

Program Overview

Program Long Title
Mathematics, Actuarial Science Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Mathematics

Requirements

Simple Requirements

Mathematics, Actuarial Science Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression - Literature (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (3 hours)

Earn at least 3 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Quantitative Reasoning and Analysis (FFQR)

Mathematics, Actuarial Science Concentration Core

Complete ALL of the following Courses:
- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2010 - Introduction to Linear Algebra
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3070 - Statistical Methods I
- MATH3400 - Intro/Concepts of Math
- MATH3810 - Complex Variables
- MATH4010 - Modern Algebra I
- MATH4110 - Advanced Calculus I
- MATH4470 - Probability & Statistics I
- MATH4480 - Probability & Statistics II
- MATH4530 - Linear Algebra I
- MATH4550 - Mathematics of Investment I
- MATH4560 - Mathematics of Investment II
- MATH3430 - College Geometry
  OR MATH4310 - Intro to Topology I
  OR MATH4410 - Differential Geometry

Mathematics, Actuarial Science Concentration Core

Pure Mathematics Sequence

MATH 4010 (5010)-MATH 4020 (5020); MATH 4110 (5110)-MATH 4120 (5120); MATH 4310 (5310)-MATH 4320 (5320); MATH 4530 (5530)-MATH 4540 (5540) (Recommended); or MATH 4850 (5850)-MATH 4860 (5860).

Complete six (6) hours from the Pure Mathematics List
Upper-division mathematics courses (3000 or higher). The student must complete at least one sequence from Pure Mathematics Sequence List:

Additional Program Requirements

Scientific Reasoning Sequence (8 hours)

Scientific Reasoning Sequence - 8 credit hours chosen from the TTU Flight Foundation Core Courses in Scientific Reasoning. These credit hours must come from two 4-credit hour courses in the same discipline. The possible disciplines are ASTR, BIOL, CHEM, GEOL/GEOG, and PHYS.

Additional Program Requirements

Complete ALL of the following Courses:
- CSC1300 - Intro/Prob Solving-Comp Prog
  OR ENGR1120 - Programming for Engineers
- ACCT3720 - Survey of Accounting
- BMGT3510 - Mgmt/Organizational Behavior
- ECON2010 - Principles of Microeconomics
- ECON2020 - Principles of Macroeconomics

- FIN3210 - Principles/Managerial Fin
- LAW2810 - Business Legal Env & Ethics
- MKT3400 - Principles of Marketing
- ELECTIVE - Elective Credit

A minor in Business is required for the Actuarial Science Concentration.

Additional free electives (0-2) may be required to complete 120 earned hours.

Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Mathematics, Actuarial Science Concentration. B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	-	32 - 30

Requirement Select

- ASTR1010 - Intro to Modern Astronomy I
- **AND** ASTR1020 - Intro to Modern Astronomy II
  OR
- BIOL1010 - Introduction to Biology
- **AND** BIOL1020 - Diversity of Life
  OR
- BIOL1113 - General Biology I
- **AND** BIOL1123 - General Biology II
  OR
- BIOL1113 - General Biology I
- **AND** BIOL2310 - General Botany
  OR
- CHEM1010 - Introductory Chemistry I
- **AND** CHEM1020 - Introductory Chemistry II
  OR
- CHEM1110 - General Chemistry I
- **AND** CHEM1120 - General Chemistry II
  OR
- GEOL1040 - Physical Geology
- **AND** GEOL1045 - Earth Environ Resrces Soc
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- **AND** PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 8

Requirement Select

- CSC1300 - Intro/Prob Solving-Comp Prog
  OR
- ENGR1120 - Programming for Engineers

Actual Credits 4 - 2

Requirement Select

- ECON2010 - Principles of Microeconomics

Actual Credits 3

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- MATH1910 - Calculus I

Actual Credits 4

Requirement Select

- MATH1920 - Calculus II

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	-	31

Requirement Select

- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select

- ECON2020 - Principles of Macroeconomics

Actual Credits 3

Requirement Select

- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select

- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- MATH3400 - Intro/Concepts of Math

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	-	30 - 29

Requirement Select
- Elective (2-3 credits)
  (Generic)

Actual Credits 3 - 2

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MATH3430 - College Geometry
  OR
- MATH4310 - Intro to Topology I
  OR
- MATH4410 - Differential Geometry

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- MATH3810 - Complex Variables

Actual Credits 3

Requirement Select
- MATH4470 - Probability & Statistics I

Actual Credits 3

Requirement Select
- MATH4480 - Probability & Statistics II

Actual Credits 3

Requirement Select
- ACCT3720 - Survey of Accounting

Actual Credits 3

Requirement Select
- BMGT3510 - Mgmt/Organizational Behavior

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	-	27 - 30

Requirement Select
- FIN3210 - Principles/Managerial Fin

Actual Credits 3

Requirement Select
- LAW2810 - Business Legal Env & Ethics

Actual Credits 3

Requirement Select
- Upper-division mathematics courses (3000 or higher). The student must complete at least one sequence from Pure Mathematics Sequence List: MATH 4010 (5010)-MATH 4020 (5020); MATH 4110 (5110)-MATH 4120 (5120); MATH 4310 (5310)-MATH 4320 (5320); MATH 4530 (5530)-MATH 4540 (5540) (Recommended); or MATH 4850 (5850)-MATH 4860 (5860).
  (Generic)

Actual Credits 3 - 6

Requirement Select
- MATH4010 - Modern Algebra I

Actual Credits 3

Requirement Select
- MATH4110 - Advanced Calculus I

Actual Credits 3

Requirement Select
- MATH4530 - Linear Algebra I

Actual Credits 3

Requirement Select
- MATH4550 - Mathematics of Investment I

Actual Credits 3

Requirement Select
- MATH4560 - Mathematics of Investment II

Actual Credits 3

Requirement Select
- MKT3400 - Principles of Marketing

Actual Credits 3

MATH-MATP - Mathematics, Pure Mathematics Concentration, B.S.

Program Overview

Program Long Title
Mathematics, Pure Mathematics Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Mathematics

Requirements

Simple Requirements

Mathematics, Pure Mathematics Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (3 hours)

Earn at least 3 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Mathematics, Pure Mathematics Concentration Core

Complete ALL of the following Courses:

- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2010 - Introduction to Linear Algebra
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3400 - Intro/Concepts of Math
- MATH3810 - Complex Variables
- MATH4010 - Modern Algebra I
- MATH4530 - Linear Algebra I
- MATH4470 - Probability & Statistics I
- MATH4110 - Advanced Calculus I
- MATH3430 - College Geometry
  OR MATH4310 - Intro to Topology I
  OR MATH4410 - Differential Geometry
- MATH3070 - Statistical Methods I
- MATH4020 - Modern Algebra II
- MATH4120 - Advanced Calculus II
- MATH4993 - Mathematical Research

Mathematics, Pure Mathematics Concentration Core

Applied Math Sequence

Upper-division mathematics courses (3000 or higher). The student must complete at least one sequence from Applied Mathematics Sequence List: MATH 3070-MATH 3080, MATH 4050 (5050)-MATH 4060 (5060); MATH 4210-MATH 4220; MATH 4250 (5250)-MATH 4260 (5260); MATH 4470 (5470)-MATH 4480 (5480); MATH 4550 (5550)MATH 4560 (5560); or any two of the three: MATH 4050 (5050), MATH 4350 (5350), or MATH 4360 (5360) (recommended).

Additional Program Requirements

Scientific Reasoning Sequence (8 hours)

Scientific Reasoning Sequence - 8 credit hours chosen from the TTU Flight Foundation Core Courses in Scientific Reasoning. These credit hours must come from two 4-credit hour courses in the same discipline. The possible disciplines are ASTR, BIOL, CHEM, GEOL/GEOG, and PHYS.

Additional Program Requirements

Complete ALL of the following Courses:

- CSC1300 - Intro/Prob Solving-Comp Prog
  OR ENGR1120 - Programming for Engineers
- ELECTIVE - Elective Credit

Additional free electives (21-23 hours) are required to complete 120 earned hours.

Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Mathematics, Pure Mathematics Concentration. B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	-	29

Requirement Select

- ASTR1010 - Intro to Modern Astronomy I
- **AND** ASTR1020 - Intro to Modern Astronomy II
  OR
- BIOL1010 - Introduction to Biology
- **AND** BIOL1020 - Diversity of Life
  OR
- BIOL1113 - General Biology I
- **AND** BIOL1123 - General Biology II
  OR
- BIOL1113 - General Biology I
- **AND** BIOL2310 - General Botany
  OR
- CHEM1010 - Introductory Chemistry I
- **AND** CHEM1020 - Introductory Chemistry II
  OR
- CHEM1110 - General Chemistry I
- **AND** CHEM1120 - General Chemistry II
  OR
- GEOL1040 - Physical Geology
- **AND** GEOL1045 - Earth Environ Resrces Soc
  OR
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- **AND** PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 8

Requirement Select

- CSC1300 - Intro/Prob Solving-Comp Prog
  OR
- ENGR1120 - Programming for Engineers

Actual Credits 4 - 2

Requirement Select

- Elective Credits (0-2)
  (Generic)

Actual Credits 0 - 2

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	-	31

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- MATH3400 - Intro/Concepts of Math

Actual Credits 3

Requirement Select
- MATH4010 - Modern Algebra I

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	-	30

Requirement Select
- Electives (6 cr)
  (Generic)

Actual Credits 6

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MATH3070 - Statistical Methods I

Actual Credits 3

Requirement Select
- MATH3430 - College Geometry
  OR
- MATH4410 - Differential Geometry
  OR
- MATH4310 - Intro to Topology I

Actual Credits 3

Requirement Select
- MATH3810 - Complex Variables

Actual Credits 3

Requirement Select
- MATH4020 - Modern Algebra II

Actual Credits 3

Requirement Select

- MATH4530 - Linear Algebra I

Actual Credits 3

Requirement Select

- MATH4470 - Probability & Statistics I

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	-	30

Requirement Select

- Elective Credits (15) (Generic)

Actual Credits 15

Requirement Select

- MATH4110 - Advanced Calculus I

Actual Credits 3

Requirement Select

- MATH4120 - Advanced Calculus II

Actual Credits 3

Requirement Select

- MATH4993 - Mathematical Research

Actual Credits 3

Requirement Select

- Mathematics (6 cr.) (Generic)

Actual Credits 6

Requirement Select

- Upper-division mathematics courses (3000 or higher). The student must complete at least one sequence from Applied Mathematics Sequence List: MATH 3070-MATH 3080, MATH 4050 (5050)-MATH 4060 (5060); MATH 4250 (5250)-MATH 4260 (5260); MATH 4470 (5470)-MATH 4480 (5480); MATH 4550 (5550)- MATH 4560 (5560); or any two of the three: MATH 4050 (5050), MATH 4350 (5350), or MATH 4360 (5360) (recommended). (Generic)

Actual Credits -

MATH-MIN - Mathematics Minor

Program Overview

Program Long Title

Mathematics Minor

College/School

Arts and Sciences

Department(s)

Mathematics

Requirements

Simple Requirements

Minor in Mathematics (MATH)

The Mathematics minor consists of 15 hours in MATH courses (six hours must be at the 3000-4000 level).

A minor in Mathematics must include MATH 1910 and MATH 1920 and it may not include a course numbered below MATH 1910.

MATH-MSED - Mathematics, Mathematics for Secondary Education Concentration, B.S.

Program Overview

Program Long Title
Mathematics, Mathematics for Secondary Education Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Mathematics

Requirements

Simple Requirements

Mathematics, Mathematics for Secondary Education Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression - Literature (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (3 hours)

Earn at least 3 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Mathematics, Mathematics for Secondary Education Concentration Core

Complete ALL of the following Courses:
- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2010 - Introduction to Linear Algebra
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3400 - Intro/Concepts of Math
- MATH3810 - Complex Variables
- MATH4010 - Modern Algebra I
- MATH4530 - Linear Algebra I
- MATH4470 - Probability & Statistics I
- MATH4110 - Advanced Calculus I
- MATH3430 - College Geometry
  OR MATH4310 - Intro to Topology I
  OR MATH4410 - Differential Geometry
- MATH4650 - Algebra for Sec Math Teaching (Inactive)
- MATH4610 - History of Mathematics I
  OR MATH4620 - History of Mathematics II

Mathematics, Mathematics for Secondary Education Concentration Core

Mathematics Sequences (2 sequences required):

Pure Mathematics Sequence List (2 Classes): MATH 4010 (5010)-MATH 4020 (5020); MATH 4110 (5110)-MATH 4120 (5120); MATH 4310 (5310)-MATH 4320 (5320); MATH 4530 (5530)-MATH 4540 (5540) (Recommended); or MATH 4850 (5850)-MATH 4860 (5860).

Applied Mathematics Sequence List (2 classes): MATH 3070-MATH 3080, MATH 4050 (5050)-MATH 4060 (5060); MATH 4210-MATH 4220, MATH 4250 (5250)-MATH 4260 (5260); MATH 4470 (5470)-MATH 4480 (5480); MATH 4550 (5550)-MATH 4560 (5560); or any two of the three: MATH 4050 (5050), MATH 4350 (5350), or MATH 4360 (5360).

Additional Program Requirements

Scientific Reasoning Sequence (8 hours):

Scientific Reasoning Sequence - 8 credit hours chosen from the TTU Flight Foundation Core Courses in Scientific Reasoning. These credit hours must come from two 4-credit hour courses in the same discipline. The possible disciplines are ASTR, BIOL, CHEM, GEOL/GEOG, and PHYS.

Additional Program Requirements

Complete ALL of the following Courses:
- CSC1300 - Intro/Prob Solving-Comp Prog
  OR ENGR1120 - Programming for Engineers
- ELECTIVE - Elective Credit

- FOED2050 - Education and Technology
- FOED3010 - Integrating Instructional Technology into the Classroom
- SEED4322 - Teaching Algebra in Middle/HS
- SEED4422 - Teach Sec Math Using Techn

Additional Requirements:

3-credit course from the College of Education - to complete minor in Education.

Additional free electives (18-20 hours) are required to complete 120 earned hours.

Financial & Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Mathematics, Mathematics for Secondary Education Concentration. B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	-	31

Requirement Select

- Scientific Reasoning Sequence - 8 credit hours chosen from the TTU Flight Foundation Core Courses in Scientific Reasoning. These credit hours must come from two 4-credit hour courses in the same discipline. The possible disciplines are ASTR, BIOL, CHEM, GEOL/GEOG, and PHYS.
  (Generic)

Actual Credits 8

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- MATH1910 - Calculus I

Actual Credits 4

Requirement Select

- MATH1920 - Calculus II

Actual Credits 4

Requirement Select

- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select

- FOED3010 - Integrating Instructional Technology into the Classroom

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	-	32 - 30

Requirement Select

- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select

- CSC1300 - Intro/Prob Solving-Comp Prog
  OR
- ENGR1120 - Programming for Engineers

Actual Credits 4 - 2

Requirement Select

- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select

- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select

- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select

- MATH2110 - Calculus III

Actual Credits 4

Requirement Select

- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- MATH3400 - Intro/Concepts of Math

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	-	30

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MATH3430 - College Geometry
  OR
- MATH4410 - Differential Geometry
  OR
- MATH4310 - Intro to Topology I

Actual Credits 3

Requirement Select
- MATH3810 - Complex Variables

Actual Credits 3

Requirement Select
- MATH4010 - Modern Algebra I

Actual Credits 3

Requirement Select
- MATH4470 - Probability & Statistics I

Actual Credits 3

Requirement Select
- MATH4530 - Linear Algebra I

Actual Credits 3

Requirement Select
- MATH4650 - Algebra for Sec Math Teaching (Inactive)

Actual Credits 3

Requirement Select
- MATH-Applied Mathematics Sequence
  OR
- MATH - Pure Mathematics Sequence

Actual Credits 3

Requirement Select
- SEED4322 - Teaching Algebra in Middle/HS

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	-	27 - 29

Requirement Select
- Elective Credits (9)
  (Generic)

Actual Credits 9 - 11

Requirement Select
- MATH4110 - Advanced Calculus I

Actual Credits 3

Requirement Select
- MATH4610 - History of Mathematics I
  OR
- MATH4620 - History of Mathematics II

Actual Credits 3

Requirement Select
- MATH-Applied Mathematics Sequence
  OR
- MATH - Pure Mathematics Sequence

Actual Credits 6

Requirement Select
- SEED4422 - Teach Sec Math Using Techn

Actual Credits 3

Requirement Select
- Elective for Education Minor (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- Upper-division mathematics courses (3000 or higher). The student must complete upper-division sequences. The approved sequences are organized into pure mathematics and applied mathematics categories as shown below. The student must complete at least one sequence from each category. Pure Mathematics Sequence List:MATH 4010 (5010)-MATH 4020 (5020), MATH 4110 (5110)-MATH 4120 (5120), MATH 4310 (5310)-MATH 4320 (5320), MATH 4530 (5530)-MATH 4540 (5540); or MATH 4850 (5850)-MATH 4860 (5860). Applied Mathematics Sequence List: MATH 3070- MATH 3080, MATH 4050 (5050)-MATH 4060 (5060); MATH 4250 (5250)-MATH 4260 (5260); MATH 4470 (5470)-MATH 4480 (5480); MATH 4550 (5550)-MATH 4560 (5560); or any two of the three: MATH 4050 (5050), MATH 4350 (5350), or MATH 4360 (5360).
  (Generic)

Actual Credits -

Courses

Course Information

Course Title
Transitional Algebra

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1000

Credit Hours

Credit Hours:
3

Lab Hours

Min:
3

Course Description
Exponents and roots; polynomials, rational radical, and absolute value expressions; factoring; linear equations and inequalities; quadratic equations; graphing; functions.

College/School
Arts and Sciences

Course Information

Course Title
Math for General Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Mathematics as applied to real-life problems selected from such topics as preference schemes for voting, fair division and apportionment methods, routing and scheduling problems, analysis of graphs, growth, and symmetry and counting problems.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Mathematics).

Course Information

Course Title
Number Concepts for Teachers

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Admission is restricted to students majoring in Elementary Education. Introduction to sets and operations on sets, properties and operations on whole numbers, and integers, rational and real numbers.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Admission is restricted to students majoring in Elementary Education.

Course Information

Course Title
Elementary Geometry Concepts

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to elements of probability and statistics and basic concepts of Euclidean geometry including congruence, similarity, measurements, areas, and volumes.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1410 or MATH 1630.

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Quantitative Reasoning/Analysis).

Course Information

Course Title
Introductory Statistics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Descriptive statistics including measures of central location and variation, frequency distributions, histograms, and frequency polygons. Probability relating to elementary sample spaces, events, conditional probability, discrete and continuous type random variables, mathematical expectation, and the normal probability. Inferential statistics relating to the confidence intervals and hypothesis tests related to the mean and proportion.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Quantitative Reasoning and Analysis).

Course Information

Course Title
Finite Mathematics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Brief review of basic algebra; introduction to probability; matrix algebra and linear programming; and applications to business and economics.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Quantitative Reasoning and Analysis).

Course Information

Course Title
Pre-Calculus Algebra

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1710

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Manipulation of algebraic expressions; equations; relations and functions; inequalities. Credit will not be given for MATH 1710 and MATH 1730.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
A minimum ACT Math score of 19, or a minimum grade of C in MATH 1000 or MATH 1630.

Approved General Education Requirement:
♦Meets Tennessee Technological University Flight Foundations requirement (Quantitative Reasoning and Analysis).

Course Information

Course Title
Pre-calculus Trigonometry

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Circular functions and radian measure, graphs of the trigonometric functions, trigonometric identities, and equations, the inverse trigonometric functions, polar coordinates. Applications involving triangles, vectors in the plane and complex numbers. Credit will not be given for both MATH 1720 and MATH 1730.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
A minimum grade of C in Math 1710.

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Quantitative Reasoning and Analysis).

Course Information

Course Title
Pre-Calculus Math

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1730

Credit Hours

Credit Hours:
5

Lecture Hours

Min:
5

Repeatable for Credit:
No

Course Description
Prerequisites: ACT Math score of 25 or higher or equivalent ACCUPLACER score. Two years of high school algebra, one year of high school geometry, and 12 weeks of trigonometry. Review of algebra and trigonometry; relations and functions and their graphs, including polynomial and rational functions; conic sections; inequalities; polar coordinates; complex numbers; and advanced topics in algebra. Credit will not be given for both MATH 1730 and any of MATH 1130, MATH 1710 and MATH 1720.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ACT Math score of 25 or higher or equivalent placement exam score. Two years of high school algebra, one year of high school geometry, and 12 weeks of trigonometry.

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Quantitative Reasoning and Analysis).

Course Information

Course Title
Applied Calculus

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1830

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
An introduction to limits, continuity, and differential and integral calculus with applications in business, economics and the life sciences.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ACT Math score of 25 or above and three years of high school mathematics, including algebra and geometry; or, special permission of the Mathematics Department; or, C or better in MATH 1710 or equivalent.

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Quantitative Reasoning and Analysis).

Course Information

Course Title
Further Topics/Applied Calc

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1831

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Corequisite: MATH 1830. Includes systems of linear equations, linear programming, exponential and logarithmic equations. This course is designed to enhance students' understand of calculus and its applications to Economics.

College/School
Arts and Sciences

Requisites and Restrictions

Corequisite:
MATH 1830.

Course Information

Course Title
Technical Calculus

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1845

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ACT mathematics score of at least 25 and four years of high school mathematics, including algebra, geometry, trigonometry, and advanced or pre-calculus mathematics; or, special permission of the Mathematics Department; or C or better in MATH 1730; or C or better in MATH 1710 and 1720 or equivalent.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ACT Math score of at least 25 and four years of high school mathematics, including algebra, geometry, trigonometry, and advanced or pre-calculus mathematics; or, special permission of the Mathematics Department; or, C or better in MATH 1730; or, C or better in MATH 1710 and 1720 or equivalent.

Note:

- Meets Tennessee Technological University Flight Foundations requirement (Quantitative Reasoning and Analysis).

Course Information

Course Title
Extended Calculus IA

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1904

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Other Hours

Min:
0

Max:
1

Operator:
OR

Repeatable for Credit:
No

Course Description
Prerequisites: ACT mathematics score of 27 or above and four years of high school mathematics including algebra, geometry, trigonometry, and advanced or pre-calculus mathematics or special permission of the Mathematics Department; or C or better in MATH 1730; or C or better in MATH 1710 and MATH 1720; or equivalent. Limits, continuity, and derivatives of functions of one variable with applications. Completion of both MATH 1904 and MATH 1906 is equivalent to completion of MATH 1910. Students will not be given credit for MATH 1904 and MATH 1910.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ACT mathematics score of 27 or above and four years of high school mathematics including algebra, geometry, trigonometry, and advanced or pre-calculus mathematics; or special permission of the Mathematics Department; or C or better in MATH 1730; or C or better in MATH 1720 and MATH 1710; or equivalent.

Note:
Credit Restriction: Completion of both Math 1904 and Math 1906 is equivalent to completion of Math 1910. Students will not be given credit for Math 1904 and Math 1910.

- Meets Tennessee Technological University Flight Foundations requirement (Quantitative Reasoning and Analysis).

Course Information

Course Title
Extended Calculus IB

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1906

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Other Hours

Min:
0

Max:
1

Operator:
OR

Course Description
Prerequisite: C or better in MATH 1904. Limits, continuity, derivatives and integrals of functions of one variable with applications. Completion of both MATH 1904 and MATH 1906 is equivalent to completion of MATH 1910. Students will not be given credit for MATH 1906 and MATH 1910.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1904.

Note:
Credit Restriction: Completion of both Math 1904 and Math 1906 is equivalent to completion of Math 1910. Students will not be given credit for Math 1906 and Math 1910.

Course Information

Course Title
Calculus I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1910

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Repeatable for Credit:
No

Course Description
Limits, continuity, derivatives and integrals of functions of one variable. Applications of differentiation and introduction to the definite integral.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ACT mathematics score of 29 or above and four years of high school mathematics including algebra, geometry, trigonometry and advanced algebra or pre-calculus mathematics; or special permission of the Mathematics Department; or C or better in MATH 1730; or C or better in MATH 1720; or equivalent.

Approved General Education Requirement:
♦ Meets Tennessee Technological University Flight Foundations requirement (Quantitative Reasoning and Analysis).

Course Information

Course Title
Calculus I Honors Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1911

Credit Hours

Credit Hours:
0

Lab Hours

Min:
1

Course Description
Co-requisite: Concurrent enrollment in MATH 1910. An ACT score of 30 or higher is also recommended. Selected topics to add depth to the understanding of the material in MATH 1910. Honors students can receive honors credit for MATH 1910 by successfully completing both MATH 1910 and MATH 1911.

College/School
Arts and Sciences

Requisites and Restrictions

Corequisite:
Concurrent enrollment in MATH 1910.

Course Information

Course Title
Calculus II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1920

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Course Description
Prerequisite: C or better in MATH 1910; or equivalent AP credit for MATH 1910. Integration techniques, applications of the definite integral, polar coordinates, parametric equations, sequences, and series.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1910 or equivalent AP credit for MATH 1910.

Course Information

Course Title
Calculus II Honors Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
1921

Credit Hours

Credit Hours:
0

Lab Hours

Min:
1

Course Description
Prerequisite: MATH1911 or permission of the instructor. (A grade of A in MATH 1910 is recommended for students not taking MATH 1911.) Corequisite: concurrent enrollment in MATH 1920.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
MATH 1911 or permission of the instructor. A grade of A in MATH 1910 is also recommended.

Corequisite:
Concurrent enrollment in MATH 1920.

Course Information

Course Title
Introduction to Linear Algebra

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 1910. Systems of linear equations, matrix algebra, inverses, matrix factorizations, determinants, vector spaces and dimension, rank, linear transformations, eigenvalues and eigenvectors, inner product, orthogonal projections.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1910.

Course Information

Course Title
Calculus III

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
2110

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Course Description
Prerequisite: C or better in MATH 1920 ; or equivalent AP credit for MATH 1910 and MATH 1920 . Analytic geometry and vectors, differential calculus of functions of several variables, multiple integration, and topics from vector calculus.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1920; or equivalent AP credit for MATH 1910 and MATH 1920.

Course Information

Course Title
Differential Equations

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
2120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 1920. First order equations, linear equations of higher order, power series solutions (including Frobenius method), Laplace transforms, other topics. It is recommended but not required that students take MATH 2010 before taking MATH 2120.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1920.

Course Information

Course Title
Discrete Structures

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
2610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Cross-listing: CSC 2700Prerequisite: C or better in MATH 1910.Topics to be chosen from algebra of sets and relations, functions, algebras, graphs, and digraphs, monoids and machines, groups and subgroups, computer arithmetic, binary codes, logic and languages.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1910.

Course Information

Course Title
Selected Topics in Mathematics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
3000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: C or better in MATH 1920 and consent of instructor. Lectures on and discussion of topics from upper level mathematics to be selected by the instructor in a setting with less structure than in a traditional class.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1920 and consent of instructor.

Course Information

Course Title
Statistical Methods I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
3070

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ACT mathematics score greater than or equal to 19; or C or better in MATH 1130 or MATH 1710 or equivalent. Introduction to parametric statistical methods, sampling, probability, Type I and Type II Error, sample size estimation, confidence interval estimation, and testing hypotheses using the normal, Student's t, and F distributions, linear regression, analysis of variance, and data analysis utilizing statistical software.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ACT mathematics score greater than or equal to 19; or C or better in MATH 1710 or equivalent.

Course Information

Course Title
Statistical Methods II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
3080

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 3070. Introduction to parametric statistical methods using classic linear models. Simple and multiple linear regression, model validation, variables selection. Analysis of count data, inference and estimation of proportions, odds ratios, goodness-of-fit tests, Fisher's Exact test, and Logistic Regression.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 3070.

Course Information

Course Title
Intro/Concepts of Math

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
3400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
4

Course Description
Prerequisite: C or better in MATH 1920. A rigorous treatment of elements of logic and set theory including propositional calculus (statements, connectives, conditionals, and negation), quantifiers, sets and operations on sets, mappings, equivalence relations, and mathematical induction. Students are expected to work in an abstract setting using precise definitions and formal proofs.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1920.

Course Information

Course Title
College Geometry

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
3430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 3400. A rigorous development of geometry from first concepts using the metric approach. Topics include constructions and hyperbolic geometry.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 3400.

Course Information

Course Title
Intro/Prob & Stats

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
3470

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 1920. Probability, random variables, discrete and continuous distributions and their simulation, elementary sampling theory, and estimation with an overall emphasis on simulation of random processes (Not allowed for mathematics majors after having taken MATH 4480.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1920.

Course Information

Course Title
Theory/Applics-Randam Signals

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
3670

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Introduction to randomization, unconditional and conditional probability, independence, and concepts of random variables. Distributions and density functions, moments and moment generating functions, univariate and multivariate random variables, random process concepts, spectral characteristics of random processes, and linear systems with random inputs.

College/School
Arts and Sciences

Course Information

Course Title
Complex Variables

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
3810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 2110. Complex numbers, calculus of complex variables, analytic functions, Cauchy's Theorem, series, the Residue Theorem, and applications.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 2110.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
3910

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Prerequisite: Consent of instructor. Readings and study under the supervision of a qualified staff member.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Modern Algebra I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 2010 or equivalent, and C or better in MATH 3400. Groups and subgroups including cyclic, abelian, finite; permutation groups; group homomorphisms; cosets and Lagrange’s Theorem; normal subgroups and factor groups.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 2010 or equivalent, and C or better in MATH 3400.

Course Information

Course Title
Modern Algebra II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 4010 (5010). Groups and subgroups including cyclic, abelian, finite; permutation groups, group homomorphisms, cosets and Lagrange's Theorem, normal subgroups and factor groups. Rings including integral domains, unique factorization domains and Euclidean domains, ideals and factor rings, ring homomorphisms, fields and their extensions, geometric constructions.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 4010 (5010).

Course Information

Course Title
Number Theory

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 3400 or consent of instructor. Properties of integers, division algorithms, prime numbers, diophantine equations, and congruences.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 3400 or consent of instructor.

Course Information

Course Title
Topics in Cryptography

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4060

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 2010 and C or better in either MATH 3400 or CSC 2700. Fundamental concepts of cryptography presented with mathematical background (including groups, fields, elements of number theory, probability and statistics). Special attention will be given to the RSA algorithm, Elliptic Curve Cryptography, the ElGamal public key cryptosystem, Diffie-Hellman key exchange and pseudo random number generators.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 2010 and C or better in either MATH 3400 or CSC 2700.

Course Information

Course Title
Advanced Calculus I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 4110 (5110): C or better in MATH 3400 or consent of instructor; MATH 4120 (5120): C or better in MATH 4110 (5110). Rigorous treatment of functions of one and several variables, improper integrals, sequences, infinite series, uniform convergence, and applications. Students are expected to improve their ability to work in an abstract setting using precise definitions and formal proofs and to present their work in class.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 3400 or consent of instructor.

Course Information

Course Title
Advanced Calculus II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 4110 (5110): C or better in MATH 3400 or consent of instructor; MATH 4120 (5120): C or better in MATH 4110 (5110). Rigorous treatment of functions of one and several variables, improper integrals, sequences, infinite series, uniform convergence, and applications. Students are expected to improve their ability to work in an abstract setting using precise definitions and formal proofs and to present their work in class.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 4110 (5110).

Course Information

Course Title
Numerical Analysis I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 4210 (5210): C or better in MATH 1920; MATH 4220 (5220): C or better in MATH 2120 or consent of instructor. Iterative methods for nonlinear equations, computational error analysis, convergence of iterative techniques, interpolation, numerical differentiation and integration, approximate solutions of initial-value problems, boundary-value problems, and nonlinear systems, and direct and iterative methods for linear systems.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1920.

Course Information

Course Title
Numerical Analysis II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 4210 (5210): C or better in MATH 1920; MATH 4220 (5220): C or better in MATH 2120 or consent of instructor. Iterative methods for nonlinear equations, computational error analysis, convergence of iterative techniques, interpolation, numerical differentiation and integration, approximate solutions of initial-value problems, boundary-value problems, and nonlinear systems, and direct and iterative methods for linear systems.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 2120 or consent of instructor.

Course Information

Course Title
Adv Ord Diff Equations I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 4250 (5250): C or better in MATH 2110 and MATH 2120; MATH 4260 (5260): C or better in MATH 4250 (5250). Systems of ordinary differential equations, matrix methods, approximate solutions, stability theory, basic theory of nonlinear equations and differential systems, trajectories, phase space stability, and construction of liapunov functions.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 2110 and MATH 2120.

Course Information

Course Title
Adv Ord Diff Equations II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4260

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 4250 (5250): C or better in MATH 2110 and MATH 2120; MATH 4260 (5260): C or better in MATH 4250 (5250). Systems of ordinary differential equations, matrix methods, approximate solutions, stability theory, basic theory of nonlinear equations and differential systems, trajectories, phase space stability, and construction of liapunov functions.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 4250 (5250).

Course Information

Course Title
Intro to Topology I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 4310 (5310): C or better in MATH 3400; MATH 4320 (5320): C or better in MATH 4310 (5310). Topological spaces, continuity, connectedness, compactness, separation axioms, function spaces, and fundamental groups.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 3400.

Course Information

Course Title
Introductory Combinatorics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4350

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 3400 or consent of instructor. Topics to be covered include permutations, combinations, multisets, partitions, recurrence relations, generating functions, and the principle of inclusion-exclusion.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 3400 or consent of instructor.

Course Information

Course Title
Intro to Topology II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 4310 (5310): C or better in MATH 3400; MATH 4320 (5320): C or better in MATH 4310 (5310). Topological spaces, continuity, connectedness, compactness, separation axioms, function spaces, and fundamental groups.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 4310 (5310).

Course Information

Course Title
Graph Theory

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4360

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 3400 or consent of instructor. Fundamental concepts of undirected and directed graphs, trees, connectivity, traversability, colorability, network flows, and matching theory.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 3400 or consent of instructor.

Course Information

Course Title
Differential Geometry

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in MATH 2110, 2010 and 3400. Geometry of curves and surfaces in three dimensional space. Calculus on surfaces, curvature and Riemannian geometry.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 2110, MATH 2010 and MATH 3400.

Course Information

Course Title
Probability & Statistics I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4470

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 4470: C or better in MATH 2110; MATH 4480: C or better in MATH 4470. Mathematical foundations of elementary statistical methods, application and theory, probability in discrete and continuous distribution, correlation and regression, sampling distributions, and significance tests.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 2110.

Course Information

Course Title
Probability & Statistics II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4480

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 4470: C or better in MATH 2110; MATH 4480: C or better in MATH 4470. Mathematical foundations of elementary statistical methods, application and theory, probability in discrete and continuous distribution, correlation and regression, sampling distributions, and significance tests.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 4470 (5470).

Course Information

Course Title
Adv Math for Engineers

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 2110 and MATH 2120. Fourier series, Sturm-Liouville problems, orthogonal functions, Legendre polynomials, Bessel functions, separable partial differential equations (e.g. heat, wave and Laplace equations), and other topics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 2110 and MATH 2120.

Course Information

Course Title
Linear Algebra I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 4530 (5530): C or better in MATH 2010 and MATH 3400; MATH 4540 (5540): C or better in MATH 4530 (5530). A theoretical study of vector spaces, bases and dimensions, subspaces, linear transformations, dual spaces, eigenvalues and eigenvectors, inner product spaces, spectral theory, duality, and quadratic and bilinear forms.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 2010 and MATH 3400.

Course Information

Course Title
Linear Algebra II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4540

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 4530 (5530): C or better in MATH 2010 and MATH 3400; MATH 4540 (5540): C or better in MATH 4530 (5530). A theoretical study of vector spaces, bases and dimensions, subspaces, linear transformations, dual spaces, eigenvalues and eigenvectors, inner product spaces, spectral theory, duality, and quadratic and bilinear forms.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 4530 (5530).

Course Information

Course Title
Mathematics of Investment I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 1920 or consent of instructor. Topics include examination of annuities, loans, bonds and other securities, portfolio, immunization, interest rate swaps.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1920 or consent of instructor.

Course Information

Course Title
Mathematics of Investment II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4560

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in both MATH 4550/5550 and MATH 4470/5470, or consent of instructor. Topics include derivative securities, mathematical models of financial risk management, and corporate finance.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in both MATH 4550 (5550) and MATH 4470 (5470), or consent of instructor.

Course Information

Course Title
History of Mathematics I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 3400. The development of mathematics and its relation to the development of civilization prior to the beginnings of calculus.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 3400.

Course Information

Course Title
History of Mathematics II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 3400. History of mathematics from the beginnings of calculus through the modern times.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 3400.

Course Information

Course Title
Algebra for Sec Math Teaching

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4650

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: C or better in MATH 3400 or consent of instructor. This course consists of an in-depth study of algebra topics concentrating on the real number system, relations and functions, and polynomials.

College/School
Arts and Sciences

Syllabus
Syllabus for Course Addition 4650.docx

Requisites and Restrictions

Prerequisite:
C or Better in MATH 3400.

Course Information

Course Title
Vector Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 2110. The algebra and the differential and integral calculus of vectors, and applications to geometry and mechanics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 2110.

Course Information

Course Title
Category Theory of Sets

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4750

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in MATH 3400 (or consent of instructor for MATH 5750). Abstract sets and mappings, categories, sums, universal property, monomorphisms and parts, finite inverse limits, colimits, epimorphisms, the Axiom of Choice, mapping sets and exponentials, covariant and contravariant functoriality of function spaces, Cantor's diagonal argument, powers sets, variable sets, models of additional variation, and selected applications.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 3400 (or consent of instructor for MATH 5750).

Mathematical Introduction to Quantum Computing

Course Information

Course Title
Intro to Quantum Computing

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
MATH

Course Number
4810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Fundamental concepts of quantum computing presented with the necessary mathematical background. Special attention will be given to the fundamental concepts such as the basic mathematical model of quantum probability and quantum systems: quantum states, Bloch sphere, classical reversible computation model, quantum computation model: qubits, quantum gates and measurement, basic quantum algorithms: Deutsch-Josza's, Grover's, quantum Fourier transform and Shor's algorithm.

College/School
Arts and Sciences

Syllabus
4810-5810.pdf

Requisites and Restrictions

Prerequisite:
C or better in MATH2010 or consent of the instructor.

Course Information

Course Title
Comp Algebraic Geometry I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4850

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in MATH 2010 and C or better in MATH 3400 or equivalent (or consent of instructor for MATH 5850). Additional recommended prerequisite: MATH 3510 or any other 4000/5000 level mathematics course in which proofs are required. Affine varieties and polynomial ideals, Groebner bases, elimination theory, Hilbert¿s Nullstellensatz, Zariski closure, and decomposition into irreducible varieties.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 2010 and C or better in MATH 3400 or equivalent (or consent of instructor for MATH 5850).

Course Information

Course Title
Comp Algebraic Geometry II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4860

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: C or better in MATH 4850 (5850). Polynomial and rational functions on a variety, projective varieties, the dimension of a variety, selected applications in robotics, automatic theorem proving, and invariant theory of finite groups.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 4850 (5850).

Course Information

Course Title
Internship in Mathematics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4900

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Students work with a public agency or private company or organization related to their area of concentration in Mathematics. Students may take a maximum of two internships for up to a total of 6 hours if the assignments are with different organizations or with different divisions within an organization.

College/School
Arts and Sciences

Syllabus
MATH 4900 TTU syllabus rev1 (3).docx

Course Information

Course Title
Directed Readings

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4910

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. These courses provide an opportunity for individual reading and study under the supervision of a qualified staff member.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Directed Readings

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4920

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Prerequisite: Consent of instructor. These courses provide an opportunity for individual reading and study under the supervision of a qualified staff member.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Topics in Mathematics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4950

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. A formal course in any area where there is no other course offering. May be taken more than once provided that the topic is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4970

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Senior standing. Preparation of papers at an advanced level in mathematics to be presented both in writing and orally.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Senior Standing.

Course Information

Course Title
Mathematical Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4991

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: C or better in MATH 1920 and consent of instructor. This course introduces students to the process of performing research. By reading papers the students will learn how to define open and significant problems, set up a research plan and, if applicable, define relevant experiments. Students will be required to give presentations on either their own or other people's research. These courses can be taken for credit more than once.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1920 and consent of instructor.

Course Information

Course Title
Mathematical Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4992

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: C or better in MATH 1920 and consent of instructor. This course introduces students to the process of performing research. By reading papers the students will learn how to define open and significant problems, set up a research plan and, if applicable, define relevant experiments. Students will be required to give presentations on either their own or other people's research. These courses can be taken for credit more than once.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1920 and consent of instructor.

Course Information

Course Title
Mathematical Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
MATH

Course Number
4993

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: C or better in MATH 1920 and consent of instructor. This course introduces students to the process of performing research. By reading papers the students will learn how to define open and significant problems, set up a research plan and, if applicable, define relevant experiments. Students will be required to give presentations on either their own or other people's research. These courses can be taken for credit more than once.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1920 and consent of instructor.

Mechanical & Nuclear Engr. Department

Programs

ME-BSME - Mechanical Engineering, B.S.M.E.

Program Overview

Program Long Title
Mechanical Engineering, B.S.M.E.

College/School
Engineering

Department(s)
Mechanical & Nuclear Engr.

Degree Map

Degree Map Name
Degree Plan - Mechanical Engineering, B.S.M.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ME1010 - Mechanical Engineering Fundamentals I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- FIN2000 - Personal Finance
  OR
- CSC2220 - Data Science & AI for Everyone
  OR
- CSC2570 - Intro to Cybersecurity/Privacy

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- ME1020 - Mechanical Engineering Fundamentals II

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- CEE2110 - Statics

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- ME2910 - Professionalism and Ethics

Actual Credits 1

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- ME2330 - Dynamics

Actual Credits 3

Requirement Select
- ECE2050 - Circuits and Electronics I

Actual Credits 4

Requirement Select
- ME2210 - Thermodynamics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- CEE3110 - Mechanics of Materials

Actual Credits 3

Requirement Select
- ME3001 - Mechanical Engr Analysis

Actual Credits 3

Requirement Select
- ME3720 - Fluid Mechanics

Actual Credits 3

Requirement Select
- ME3310 - Experimntl Methods 1-DUPLICATE (Inactive)

Actual Credits 3

Requirement Select
- ME3010 - Materials & Processes in Mfg

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- ME3050 - System Dynamics

Actual Credits 3

Requirement Select
- ME3610 - Dynamics of Machinery

Actual Credits 3

Requirement Select
- ME3710 - Heat Transfer

Actual Credits 3

Requirement Select
- ME3020 - Machine Design-DUPLICATE (Inactive)

Actual Credits 3

Requirement Select
- ME3320 - Experimntl Methods 2-DUPLICATE (Inactive)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- ME4020 - Applied Machine Design

  OR
- ME4720 - Thermal Design

Actual Credits 3

Requirement Select
- ME4410 - Senior Design Project I

Actual Credits 3

Requirement Select
- ME/Area of Emphasis - Category 1

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- ME4420 - Senior Design Project II

Actual Credits 3

Requirement Select
- ME/Area of Emphasis - Category 1

Actual Credits 3

Requirement Select

- ME/Area of Emphasis - Category 2
  OR
- ME/Area of Emphasis - Category 3
  OR
- ME/Area of Emphasis - Category 4

Actual Credits 6

Requirement Select

- Area of Emphasis (AOE) Courses - 15 hours
  Category 1: Mechanical engineering elective courses (a minimum of 9 credit hours must be taken from this category for AOEs)
  • ME 4020 (5020) - Applied Machine Design Credit: 3.
  • ME 4060 (5060) - Machine Vibrations Credit: 3.
  • ME 4120 (5120) - Intermediate Dynamics Credit: 3.
  • ME 4140 (5140) - Introduction to Robotics and Intelligent Machines Engineering Credit: 3.
  • ME 4160 (5160) - Experimental Stress Analysis Credit: 3.
  • ME 4180 (5180) - Finite Element Methods in Mechanical Design Credit: 3.
  • ME 4190 (5190) - Advanced Mechanics of Materials Credit: 3.
  • ME 4210 (5210) - Refrigeration and Air Conditioning Credit: 3.
  • ME 4220 (5220) - Air Conditioning Design Credit: 3.
  • ME 4260 (5260) - Energy Conversion and Conservation Credit: 3.
  • ME 4310 (5310) - Gas Dynamics Credit: 3.
  • ME 4370 (5370) - Mechatronics and Intelligent Machines Engineering Credit: 3.
  • ME 4380 (5380) - Introduction to Data Acquisition and Signal Processing Credit: 3.
  • ME 4450 (5450) - Design for Manufacturability Credit: 3.
  • ME 4460 (5460) - Mechanical Properties of Materials Credit: 3.
  • ME 4480 (5480) - Microstructural Analysis Credit: 3.
  • ME 4490 (5490) - Properties and Selection of Engineering Materials Credit: 3.
  • ME 4510 (5510) - Aerodynamics Credit: 3.
  • ME 4610 (5610) - Steam Power Plants Credit: 3.
  • ME 4620 (5620) - Turbomachinery Credit: 3.
  • ME 4630 (5630) - Internal Combustion Engines Credit: 3.
  • ME 4640 (5640) - Dynamics of Machinery II Credit: 3.
  • ME 4710 - Propulsion Credit: 3.
  • ME 4720 (5720) - Thermal Design Credit: 3.
  • ME 4730 (5730) - Numerical Heat Transfer Credit: 3.
  • ME 4810 (5810) - Automatic Controls Credit: 3.
  • ME 4900 - Special Topics Credit: 1-3. (maximum of 3 credit hours shall be counted as AOE)
  • ME 4930 (5930) - Noise Control Credit: 3.
  • ME 4990 - Undergraduate Research Credit: 3. (maximum of 3 credit hours shall be counted as AOE)
  Any VE 4000- and ME 6000-level courses may be used with prior approval of both the course instructor and the ME department chair/associate chair. The student must be within 18 credit hours of graduation.
  (Generic)

Actual Credits -

Requirement Select

- Category 2: Mathematics directly applicable to mechanical engineering
  • MATH 3470 - Introductory Probability and Statistics Credit: 3.
  • MATH 3810 - Complex Variables Credit: 3.
  • MATH 4210 (5210) - Numerical Analysis I Credit: 3.
  • MATH 4220 (5220) - Numerical Analysis II Credit: 3.
  • MATH 4250 (5250) - Advanced Ordinary Differential Equations I Credit: 3.
  • MATH 4510 (5510) - Advanced Mathematics for Engineers Credit: 3.
  • MATH 4530 (5530) - Linear Algebra I Credit: 3.
  • MATH 4710 (5710) - Vector Analysis Credit: 3.
  (Generic)

Actual Credits -

Requirement Select

- Category 3: Select General Engineering and Business Courses
  (maximum of 3 credit hours shall be counted as AOE)
  • BMGT 3510 - Management and Organizational Behavior Credit: 3.
  • ENGR 4510 - Engineering Management Credit: 3.
  • ENTR 4500 - Innovation and Entrepreneurship: Lean Launchpad Credit: 3.
  (Generic)

Actual Credits -

Requirement Select

- Category 4: Miscellaneous Engineering, Technology and Science Courses
  The following MET courses are pre-approved:
  • MET 4400 (5400) - Geometric Dimensioning and Tolerancing Credit: 3.
  • MET 4450 (5450) - Additive Manufacturing Credit: 3.
  • MET 4650 (5650) - Lean Six Sigma Manufacturing Credit: 3.
  Other upper division (3000 and 4000-level) engineering, technology and science courses may be used with prior approval of both the course instructor and the ME department.
  (Generic)

Actual Credits -

ME-MEAE - Mechanical Engineering, Aerospace Engineering Concentration, B.S.M.E.

Program Overview

Program Long Title
Mechanical Engineering, Aerospace Engineering Concentration, B.S.M.E.

College/School
Engineering

Department(s)
Mechanical & Nuclear Engr.

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - Mechanical Engineering, Aerospace Concentration, B.S.M.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- ME1010 - Mechanical Engineering Fundamentals I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- FIN2000 - Personal Finance
  OR
- CSC2220 - Data Science & AI for Everyone
  OR
- CSC2570 - Intro to Cybersecurity/Privacy

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- ME1020 - Mechanical Engineering Fundamentals II

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CEE2110 - Statics

Actual Credits 3

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Requirement Select
- ME2910 - Professionalism and Ethics

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- ME2330 - Dynamics

Actual Credits 3

Requirement Select
- ECE2050 - Circuits and Electronics I

Actual Credits 4

Requirement Select
- ME2210 - Thermodynamics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- CEE3110 - Mechanics of Materials

Actual Credits 3

Requirement Select
- ME3001 - Mechanical Engr Analysis

Actual Credits 3

Requirement Select
- ME3720 - Fluid Mechanics

Actual Credits 3

Requirement Select
- ME3010 - Materials & Processes in Mfg

Actual Credits 3

Requirement Select
- ME3310 - Experimntl Methods 1-DUPLICATE (Inactive)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- ME3050 - System Dynamics

Actual Credits 3

Requirement Select
- ME3610 - Dynamics of Machinery

Actual Credits 3

Requirement Select
- ME3710 - Heat Transfer

Actual Credits 3

Requirement Select
- ME3320 - Experimntl Methods 2-DUPLICATE (Inactive)

Actual Credits 3

Requirement Select
- ME3020 - Machine Design-DUPLICATE (Inactive)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- ME4310 - Gas Dynamics
  OR
- ME4510 - Aerodynamics
  OR
- ME4710 - Propulsion

Actual Credits 3

Requirement Select
- ME4060 - Machine Vibrations
  OR
- ME4380 - Intro - Data Acq & Signal Proc
  OR
- ME4620 - Turbomachinery
  OR
- ME4930 - Noise Control
  OR
- ME4810 - Automatic Control

Actual Credits 3

Requirement Select
- ME4414 - Senior Design I-Aerospace

Actual Credits 3

Requirement Select
- ME4020 - Applied Machine Design
  OR
- ME4720 - Thermal Design

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- ME4310 - Gas Dynamics
  OR
- ME4510 - Aerodynamics
  OR
- ME4710 - Propulsion

Actual Credits 3

Requirement Select
- ME4060 - Machine Vibrations
  OR
- ME4380 - Intro - Data Acq & Signal Proc
  OR
- ME4620 - Turbomachinery
  OR
- ME4810 - Automatic Control
  OR
- ME4930 - Noise Control

Actual Credits 3

Requirement Select
- Area of Emphasis Course (Generic)

Actual Credits 3

Requirement Select
- ME4424 - Senior Design II-Aerospace

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- • BSME Aerospace concentration students are required to take at least 4 out of 5 existing AOEs from the Aerospace focus area. Among the 4 courses, at least two courses must be selected from these three courses:
  • ME 4310 (5310) - Gas Dynamics
  • ME 4510 (5510) - Aerodynamics
  • ME 4710 - Propulsion
  • The other two can be selected from the list below:
  • ME 4060 (5060) - Machine Vibrations
  • ME 4380 (5380) - Introduction to Data Acquisition and Signal Processing
  • ME 4620 (5620) - Turbomachinery
  • ME 4810 (5810) - Automatic Controls
  • ME 4930 (5930) - Noise Control
  (Generic)

Actual Credits -

ME-MROB - Mechanical Engineering, Mechatronics and Robotics Concentration, B.S.M.E.

Program Overview

Program Long Title
Mechanical Engineering, Mechatronics and Robotics Concentration, B.S.M.E.

College/School
Engineering

Department(s)
Mechanical & Nuclear Engr.

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - Mechanical Engineering, Mechatronics Concentration, B.S.M.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ME1010 - Mechanical Engineering Fundamentals I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Year	Semester	Actual Credits
Freshman Year	Second Semester	18

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CEE2110 - Statics

Actual Credits 3

Requirement Select
- ECE2140 - Intro to Digital Systems

Actual Credits 4

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ECE2050 - Circuits and Electronics I

Actual Credits 4

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- ME2330 - Dynamics

Actual Credits 3

Requirement Select
- ME2910 - Professionalism and Ethics

Actual Credits 1

Requirement Select
- ME2210 - Thermodynamics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- CEE3110 - Mechanics of Materials

Actual Credits 3

Requirement Select
- ME3010 - Materials & Processes in Mfg

Actual Credits 3

Requirement Select
- ME3310 - Experimntl Methods 1-DUPLICATE (Inactive)

Actual Credits 3

Requirement Select
- ME3001 - Mechanical Engr Analysis

Actual Credits 3

Requirement Select
- ME3720 - Fluid Mechanics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- ECE3270 - Programmable Logic Controller Laboratory

Actual Credits 1

Requirement Select
- ME3050 - System Dynamics

Actual Credits 3

Requirement Select
- ME3320 - Experimntl Methods 2-DUPLICATE (Inactive)

Actual Credits 3

Requirement Select
- ME3710 - Heat Transfer

Actual Credits 3

Requirement Select
- ME3020 - Machine Design-DUPLICATE (Inactive)

Actual Credits 3

Requirement Select
- ME3610 - Dynamics of Machinery

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- ME4140 - Intro to Robotics

Actual Credits 3

Requirement Select
- ME4416 - Senior Design I - Mechatronics and Robotics

Actual Credits 3

Requirement Select
- ME4370 - Mechatronics/Intel Mach Engr

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- ECE3210 - Control System Analysis
  OR
- ME4810 - Automatic Control

Actual Credits 3

Requirement Select
- ME4390 - Machine Learning in ME

Actual Credits 3

Requirement Select
- FIN2000 - Personal Finance
  OR
- CSC2220 - Data Science & AI for Everyone
  OR
- CSC2570 - Intro to Cybersecurity/Privacy

Actual Credits 3

Requirement Select
- ME4426 - Senior Design II - Mechatronics and Robotics

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

ME-VE - Mechanical Engineering, Vehicle Engineering Concentration, B.S.M.E.

Program Overview

Program Long Title
Mechanical Engineering, Vehicle Engineering Concentration, B.S.M.E.

College/School
Engineering

Department(s)
Mechanical & Nuclear Engr.

Degree Map

Degree Map Name
Degree Plan - Mechanical Engineering, Vehicle Engineering Concentration, B.S.M.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- ME1010 - Mechanical Engineering Fundamentals I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- FIN2000 - Personal Finance
  OR
- CSC2220 - Data Science & AI for Everyone
  OR
- CSC2570 - Intro to Cybersecurity/Privacy

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- ME1020 - Mechanical Engineering Fundamentals II

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- CEE2110 - Statics

Actual Credits 3

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- MATH2010 - Introduction to Linear Algebra

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- ME2910 - Professionalism and Ethics

Actual Credits 1

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- ME2330 - Dynamics

Actual Credits 3

Requirement Select
- ECE2050 - Circuits and Electronics I

Actual Credits 4

Requirement Select
- ME2210 - Thermodynamics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- CEE3110 - Mechanics of Materials

Actual Credits 3

Requirement Select
- ME3001 - Mechanical Engr Analysis

Actual Credits 3

Requirement Select
- ME3720 - Fluid Mechanics

Actual Credits 3

Requirement Select
- VE3400 - Intro to Automotive Systems

Actual Credits 3

Requirement Select
- ME3010 - Materials & Processes in Mfg

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- ME3610 - Dynamics of Machinery

Actual Credits 3

Requirement Select
- ME3710 - Heat Transfer

Actual Credits 3

Requirement Select
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Requirement Select
- VE3500 - Sensors, Transducers,Instrmn

Actual Credits 3

Requirement Select
- ME3020 - Machine Design-DUPLICATE (Inactive)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- ME3050 - System Dynamics

Actual Credits 3

Requirement Select
- ME4020 - Applied Machine Design
  OR
- ME4720 - Thermal Design

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- VE4100 - Senior Design Project I - ME

Actual Credits 3

Requirement Select
- ME3320 - Experimntl Methods 2-DUPLICATE (Inactive)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- ME4060 - Machine Vibrations
  OR
- ME4180 - Finite Elem Meth-Mech Dsgn
  OR
- ME4380 - Intro - Data Acq & Signal Proc
  OR
- ME4930 - Noise Control
  OR
- VE4500 - Reliability & Quality Engr

Actual Credits 3

Requirement Select

- VE4050 - Autonomous Vehicles
  OR
- ME4630 - Internal Combustion Engines
  OR
- ME4810 - Automatic Control

Actual Credits 3

Requirement Select

- VE4050 - Autonomous Vehicles
  OR
- ME4630 - Internal Combustion Engines
  OR
- ME4810 - Automatic Control

Actual Credits 3

Requirement Select

- VE4200 - Senior Design Project II - ME

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- Note: VE students are required to take 3 AOEs from the Vehicle Engineering focus area. Among the 3 courses, at least 2 courses must be selected from these 3 courses: · VE 4050 - Autonomous Vehicles · ME 4630 (5630) - Internal Combustion Engines · ME 4810 (5810) - Automatic Controls The third elective can be taken from one of the courses listed below: · ME 4060 (5060) - Machine Vibrations · ME 4180 (5180) - Finite Element Methods in Mechanical Design · ME 4380 (5380) - Introduction to Data Acquisition and Signal Processing · ME 4930 (5930) - Noise Control · VE 4500 - Reliability and Quality Engineering
  (Generic)

Actual Credits -

NE-BSNE - Nuclear Engineering, B.S.N.E.

Program Overview

Program Long Title

Nuclear Engineering, B.S.N.E.

College/School

Engineering

Department(s)

Mechanical & Nuclear Engr.

Degree Map

Degree Map Name
Degree Plan - Nuclear Engineering, B.S.N.E.
Total Degree Map Credits
128
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative

Approved Areas of Emphasis:

General Nuclear Engineering- All courses must be chosen from the list of generally approved courses. At least three courses must be at the 4000-level or above and at least three courses must be listed or co-listed under Nuclear Engineering in the course catalog.

1. Any 3 or 4-credit course at the 3000-level or above, listed or co-listed under Nuclear Engineering in the course catalog.

2. Any 3 or 4-credit course at the 3000-level or above, listed or co-listed under Mechanical Engineering in the course catalog.

3. ECE 2050, CHEM 4310, PHYS 3020, or any course approved by the Program Director.

Processing of Nuclear Materials- CHEM 1120, CHEM 3410, CHEM 4310, ME 3010, two courses listed or co-listed under Nuclear Engineering at the 4000-level or above.

Year	Semester	Actual Credits
Freshman Year	First Semester	17

Requirement Select

- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- ME1010 - Mechanical Engineering Fundamentals I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- ME1020 - Mechanical Engineering Fundamentals II

Actual Credits 3

Requirement Select
- NE2110 - Introduction to Nuclear Energy

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- CEE2110 - Statics

Actual Credits 3

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- NE2120 - Radiation Protection & Safety

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- ME2330 - Dynamics

Actual Credits 3

Requirement Select
- ME2210 - Thermodynamics

Actual Credits 3

Requirement Select
- ME2910 - Professionalism and Ethics

Actual Credits 1

Requirement Select
- NE2130 - Nuclear Regulation and Safety

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Requirement Select
- ME3720 - Fluid Mechanics

Actual Credits 3

Requirement Select
- ME3710 - Heat Transfer

Actual Credits 3

Requirement Select
- NE3210 - Nuclear Reactor Theory

Actual Credits 3

Requirement Select
- NE3230 - NE 3230: Radiation Detection and Measurement

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- NE3220 - NE 3220: Computational Methods for Nuclear Engineers

Actual Credits 3

Requirement Select
- NE3240 - Nuclear Reactor Engineering

Actual Credits 3

Requirement Select
- Area of Emphasis Course (Generic)

Actual Credits 3

Requirement Select
- Area of Emphasis Course (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Fall Semester	16

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- NE4211 - Nuclear Engineering Design I

Actual Credits 3

Requirement Select
- NE4230 - Nuclear Reactor Operations

Actual Credits 3

Requirement Select
- NE4400 - Nuclear Energy Seminar

Actual Credits 1

Requirement Select
- Area of Emphasis elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Area of Emphasis elective (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	15

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- NE4212 - Nuclear Engineering Design II

Actual Credits 3

Requirement Select
- NE4240 - Nuclear Fuel Cycle

Actual Credits 3

Requirement Select
- Area of Emphasis elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Area of Emphasis elective (3 cr.) (Generic)

Actual Credits 3

Courses

Mechanical Engineering Fundamentals I

Course Information

Course Title
ME Fundamentals I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
1010

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Introduce the mechanical engineering profession through project-based learning. Introduce design, analysis, and experimental thinking, teaming, and engineering communication as professional knowledge, skills, and abilities. Introduce and develop programming knowledge and skill with MATLAB and MS Excel.

College/School
Engineering

Engineering Career Readiness

Course Information

Course Title
Engr Career Readiness

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
1015

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Develop mechanical engineering career readiness through project-based learning. Apply design, analysis, and experimental thinking, teaming, and engineering communication as professional knowledge, skills, and abilities.

College/School
Engineering

Mechanical Engineering Fundamentals II

Course Information

Course Title
ME Fundamentals II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
1020

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Advance knowledge, skill, and ability in analysis thinking, design, thinking, teaming, and engineering communication through project-based learning. Introduce and develop parametric solid modeling and graphics knowledge and skill with Solidworks.

College/School
Engineering

Course Information

Course Title
Thermodynamics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
2210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Concepts, models and laws; energy and the first law; properties and state; energy analysis of thermodynamics systems; entropy and the second law; conventional power and refrigeration cycles.

College/School
Engineering

Syllabus
ME 2210 Syllabus_Jan 2024.pdf

Requisites and Restrictions

Prerequisite:
CHEM 1110; and C or better in MATH 1920

Course Information

Course Title
Dynamics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
2330

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: C or better in CEE 2110; PHYS 2110. Kinematics; relative motion; kinetics, applications of Newton's Laws, work-energy principle, impulse-momentum principle, and vibrations.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CEE 2110; PHYS 2110.

Note:
(ENGR 2120, TTP Course)

Course Information

Course Title
Professionalism and Ethics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
2910

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Prerequisite: Sophomore Standing. Professional, social and ethical issues in engineering practices; oral and written technical communication.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Sophomore Standing.

Course Information

Course Title
Mechanical Engr Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
3001

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Analytical and numerical techniques are developed for problems arising in mechanical engineering. Analytical methods include applications of Laplace transforms, Fourier series and separation of variables. Numerical methods include root finding, quadrature rules, and solutions to ordinary and partial differential equations. Use of modern numerical computing tools for problem solving.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ENGR 1120 or CSC 1300 or ME 1010; C or better in MATH 2010; C or better in MATH 2120.

Course Information

Course Title
Materials & Processes in Mfg

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
3010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Processing/microstructure/property interrelations; heat treatment of steels and alloys; overview of manufacturing processes; interrelations among materials, design, and manufacturing; and introduction to material selection.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CHEM 1110; and a grade of 'C' or better in CEE 2110.

Course Information

Course Title
Machine Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Catalog description Loads analysis; design of machine parts for stiffness and rigidity; design of machine parts for strength; design of machine parts for fatigue life; introduction to fastening and joining.

College/School
Engineering

Syllabus
ME 3020 Syllabus_Jan 2024.pdf

Requisites and Restrictions

Prerequisite:
CEE 3110, ME 2330, and ME 3010.

Course Information

Course Title
System Dynamics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
3050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Modeling and simulation of lumped parameter systems, mechanical, electrical, thermal, fluid, and/or mixed; time and frequency response; vibration applications; control algorithms.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 2330, ME 3023 or VE 3500 or ME 3310, and ME 3001

Course Information

Course Title
Dynamic Modeling/Controls Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
3060

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Corequisite: ME 3050. Experiments and simulations of lumped parameter mechanical systems; time and frequency response; vibration applications; control algorithms.

College/School
Engineering

Requisites and Restrictions

Corequisite:
ME 3050.

Course Information

Course Title
Thermodynamics I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
3210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: CHEM 1110; C or better in MATH 2110. Concepts, models and laws; energy and the first law; properties and state; energy analysis of thermodynamics systems; entropy and the second law; and conventional power and refrigeration cycles.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CHEM 1110; C or better in MATH 2110.

Course Information

Course Title
Experimental Methods 1

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
3310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
2

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisites: ECE 2050 or ECE 2850. Introduce and develop experimental methods; sensors and data acquisition techniques for measurement in mechanical systems, structural and fluid applications.

College/School
Engineering

Syllabus
ME 3310 Syllabus_Jan 2024.pdf

Requisites and Restrictions

Prerequisite:
ECE 2050 or ECE 2850

Prerequisite or corequisite:
PHYS 2120

Course Information

Course Title
Experimental Methods 2

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
3320

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Advance experimental methods and develop design of experiments; sensors and measurement techniques for structural and thermal mechanical systems.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3310 or VE 3500

Course Information

Course Title
Dynamics of Machinery

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
3610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ME 2330. Motion converters and design process. Mobility equations; solutions of vector equations; kinematic position, velocity and acceleration analysis of mechanisms; kineto-static load analysis of machines; introductory synthesis of linkages; design of cam-follower mechanisms; gear tooth geometry; analysis and synthesis of gear trains and planetary gear differentials; and computer-aided studies.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 2330.

Course Information

Course Title
Heat Transfer

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
3710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Single and multidimensional steady-state and transient heat conduction; role of convection for internal and external forced flows and in buoyancy-driven flow; and thermal radiation processes and properties.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3210 or ME 2210 (ME 2210 may be taken concurrently); C or better in MATH 2120.

Course Information

Course Title
Fluid Mechanics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
3720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: ME 2330. Fundamentals of fluid flow; fluid statics; systems and control volumes; continuity, momentum and energy equations; dynamic similitude; one-dimensional open channel flow; and compressible flow.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 2330.

Course Information

Course Title
Applied Machine Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Design for strength and rigidity under dynamic loads; shaft design; design of joints (threaded fasteners, welds, springs, keys, etc.); design of gear trains; lubrication and bearing design; finite element analysis; and optimization, and statistical consideration in design.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3610; and ME 4010 or ME 3020

Course Information

Course Title
Machine Vibrations

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4060

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ME 3050. Linear vibration of machine elements, lumped parameter multidegree of freedom and continuous system solutions; computer-aided solutions of linear and nonlinear systems; and simple laboratory vibration measurement and comparative vibration analysis.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3050.

Course Information

Course Title
Intermediate Dynamics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ME 2330. Rigid-body kinematics, plane and three-dimensional rigid-body kinetics, Lagrangian mechanics, orbital motions, and variable mass rockets.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 2330.

Course Information

Course Title
Intro to Robotics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4140

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: ME 3050 and ME 3060 or ECE 3210 and ECE 3260. Robotic concepts and subsystems; mechanics of robots; sensors and intelligence; actuators; and trajectory planning and control. The combination of ME 3050 and ME 3060 or the combination of ECE 3210 and ECE 3260 may be taken concurrently.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3050 and ME 3060; or ECE 3210 and ECE 3260. The combination of ME 3050 and ME 3060 or the combination of ECE 3210 and ECE 3260 may be taken concurrently.

Course Information

Course Title
Finite Elem Meth-Mech Dsgn

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4180

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites:CEE 3110. Fundamental concepts; displacement-based finite element formulation using energy methods; one-dimensional and two-dimensional finite elements; modeling considerations and convergence; programming and an introduction to a commercial program.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3110.

Course Information

Course Title
Adv Mechanics of Materials

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4190

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: CEE 3110, MATH 2120, or consent of instructor. Advanced topics; fracture mechanics, elastic support, non-circular shafts, curved beams, thick-walled cylinders, introduction to plates, and thin shells of revolution.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3110, MATH 2120 or consent of instructor.

Course Information

Course Title
Refrigeration & A/C

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Refrigeration systems and HVAC design concepts; air-conditioning systems, principles of psychrometrics, human comfort, and principles of building load calculations and annual energy use simulations.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3710 and ME 3720

Course Information

Course Title
Air Conditioning Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ME 3220, ME 3710, ME 3720. Design of heating, cooling, and ventilating systems for buildings. Duct system design, pipe system layout and equipment selection.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3710 and ME 3720

Course Information

Course Title
Intermediate Thermodynamics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ME 2210. Gas power and refrigeration cycle; exergy analysis; real and ideal gas mixtures; combustion and chemical equilibrium.

College/School
Engineering

Syllabus
ME 4230 Syllabus_Jan 2024.pdf

Requisites and Restrictions

Prerequisite:
ME 2210.

Course Information

Course Title
Energy Conversion/Conservation

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4260

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ME 3710. An in-depth study of industrial steam, pumping and compressed air systems in terms of how to reduce system energy consumption.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3710.

Course Information

Course Title
Gas Dynamics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: ME 2210 or ME 3210 and ME 3720. Balance laws, shock waves, Prandtl/Meyer expansion, flow through ducts and nozzles, unsteady wave motion, linearized supersonic thin airfoil theory.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 2210 or ME 3210 and ME 3720.

Course Information

Course Title
Mechatronics/Intel Mach Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4370

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: ECE 2050 (or ECE 2850); ME 3050 and ME 3060. Mechatronics; number systems; microcontroller technology and architecture of 8-bit microcontrollers (e.g. Motorola MC68H110), assembly language programming, A/D and D/A conversion, parallel I/O; programmable timer operation, interfacing sensors and actuators, applications, and team project on design and implementation of a mechatronic system.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ECE 2050 or ECE 2850, ME 3050 and ME 3060.

Course Information

Course Title
Intro - Data Acq & Signal Proc

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4380

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ME 3023, ME 3050 and ME 3060 or Instructor consent. Lab VIEW programming and data acquisition with commercial hardware digital signal processing basics including sampling, analog-to-digital conversion, quantization, aliasing, and Fourier analysis. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3023, ME 3050 and ME 3060 or Instructor consent.

Course Information

Course Title
Machine Learning in ME

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4390

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ME 3050. This course will provide an overview of machine learning theory and cover specific applications for embedded systems. Machine learning provides a core set of tools to process data to perform decision-making and is thus a core tool for engineering. Applications of machine learning in mechanical engineering, span manufacturing, robotics, HVAC, control, etc., will be the focus of this course.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3050.

Course Information

Course Title
Senior Design Project I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4410

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Principles of engineering design with emphasis on contemporary industrial design processes and engineering economics with applications in product design. Development phase for capstone team design project in mechanical engineering: preliminary design, supporting analyses and drawings with bill of materials.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 2910, ME 3001, ME 3610, ME 3710, ME 3720, ME 4010 or ME 3020.

Prerequisite or corequisite:
ME 3050, ME 3060 or ME 3320, ME 4020 or ME 4720.

Course Information

Course Title
Senior Design I-Aerospace

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4414

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Principles of engineering design with emphasis on contemporary aerospace industrial design processes and engineering economics with applications in product design. Development phase for capstone team design project in mechanical engineering: preliminary design, supporting analysis and drawings with bill of materials.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 2910, ME 3001, ME 3610, ME 3710, ME 3720, ME 4010 or ME 3020.

Prerequisite or corequisite:
ME 3050, 3060 or ME 3320, ME 4020 or ME 4720.

Senior Design I - Mechatronics and Robotics

Course Information

Course Title
Senior Design I - Mech & Robot

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4416

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Principles of engineering design principles with emphasis on contemporary mechatronics and robotics industrial practice. Product cost economics analysis with underlying principles related to cost of money and breakeven analysis. Project proposal writing, preliminary design, supporting analyses and drawings with bill of materials ready to fabricate the following semester.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 2910, ME 3001, ME 3610, ME 3710, ME 3720, ME 4010 or ME 3020.

Prerequisite or corequisite:
ME 3050, ME 3060 or 3320

Course Information

Course Title
Senior Design Project II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4420

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisites: ME 4410; ME 3050; ME 3060; ME 4910; ME 4020 (5020) or ME 4720. Continuation of ME 4410. Prototyping and testing phase for capstone team design project. Final design reporting (written and oral). ME 4020 (5020) or ME 4720 may be taken concurrently.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 4410; ME 3050; ME 3060; ME 2910; ME 4020 (5020) or ME 4720 (5720).

Course Information

Course Title
Senior Design II-Aerospace

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4424

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: ME 4414; Prerequisite or Co-requisite: ME 4020 or ME 4720. Continuation of ME 4414. Prototyping and testing phase for capstone team design project. Final design reporting (written and oral).

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 4414; ME 4020 or ME 4720.

Corequisite:
ME 4020 or ME 4720.

Senior Design II - Mechatronics and Robotics

Course Information

Course Title
Senior Design II-Mech & Robot

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4426

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisites: ME 4416; ME 4370. Co-requisite: ME 4370. Selection of materials and Manufacturing Processes, Design for manufacturing, Design for Sustainability and Cost Analysis. Fabrication/ building of prototype of design developed in ME4416 to prove the concept is required. Use of 3D printing and machine shop equipment are expected. Assembly, testing and data collection and analysis required. Final project report and presentation required.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 4416; ME 4370.

Corequisite:
ME 4370.

Course Information

Course Title
Design for Manufacturability

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4450

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: ME 3010 and CEE 3110. Material and manufacturing process constraints on design shape, size and quantity; plastic and fibrous composite parts manufacturing; rapid prototyping; design for X; dimensions and tolerances.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3010 and CEE 3110.

Course Information

Course Title
Mech Properties of Mtrls

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4460

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CEE 3110, ME 3010, or consent of instructor. Elastic and anelastic properties, dislocations, slip, plastic deformation, fracture mechanics, creep, fatigue and fatigue crack propagation, materials testing, and introduction to failure analysis.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
CEE 3110, ME 3010 or consent of instructor.

Course Information

Course Title
Microstructural Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4480

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ME 4460 (5460). Techniques and applications of microstructural analysis; optical microscopy; metallography; electron microscopy; and fractography and failure analysis.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 4460 (5460).

Course Information

Course Title
Aerodynamics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ME 3720. Atmospheric fluid statics, ideal fluid dynamics, potential flow, lift and draft estimation, powered flight, glides, takeoffs, landings.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3720.

Course Information

Course Title
Steam Power Plants

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Energy sources, fuels, firing methods, boilers, turbine characteristics, cooling water and cooling towers, dust collection, new developments in energy generation, plant trip.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3710 and ME 3720.

Course Information

Course Title
Turbomachinery

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: ME 3720. Presents a generalized description and unified theory pertaining to the classification, operation, selection and basic design of rotating turbomachines - pumps, fans, compressors, and turbines.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3720.

Course Information

Course Title
Internal Combustion Engines

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Ideal fuel/air cycles, heat loss, friction, combustion and detonation, carburetion and fuel injection; air flow, normal overall performance, and extreme performance.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3710 and ME 3720.

Course Information

Course Title
Dynamics of Machinery II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4640

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: ME 3610. Graphical and analytical synthesis of linkage mechanisms for function generation, motion generation, and path generation. Kinetostatic analysis of linkage mechanisms; engine dynamics and balancing; and rigid-body dynamics and time response analysis.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3610.

Course Information

Course Title
Propulsion

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course presents aerospace propulsive devices as systems, with functional requirements and engineering and environmental limitations along with requirements and limitations that constrain design choices. both air-breathing and rocket engines are covered, at a level which enables rational integration of the propulsive system into an overall vehicle design. Mission analysis, fundamental performance relations, and exemplary design solutions are presented.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3710 and ME 3720.

Course Information

Course Title
Thermal Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to the design of thermofluid devices and systems; general design methodology, modeling, simulation, and optimization; and heat exchangers and prime movers in systems.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3710 and ME 3720.

Course Information

Course Title
Numerical Heat Transfer

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4730

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: ME 3710, ME 3720. Fundamentals of numerical methods; steady and unsteady one-dimensional heat conduction; steady and unsteady multidimensional heat conduction; fully-developed duct flows; one- and two-dimensional convection heat transfer, and flow through porous media.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3710, ME 3720.

Course Information

Course Title
Energy Systems Laboratory

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4751

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Basic instrumentation and principles of measuring pressure, temperature, fluid velocity, and fluid flow rate; demonstrations, measurements, and evaluations of heat transfer and fluid flow processes.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3023 or ME 3310, ME 3710 and ME 3720.

Course Information

Course Title
Automatic Control

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: ME 3050. ME 3050 may be taken concurrently. Mathematical modeling of physical systems, control algorithms, stability, transient response, and frequency response.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 3050. ME 3050 may be taken concurrently.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4900

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Junior or Senior Standing. Special topics of current interest in mechanical engineering that are not covered in existing courses. ME 4900 is a variable credit course (1-3 credits). Course is repeatable for additional credit, up to 7 credits, if the topic is different.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Junior or Senior Standing.

Course Information

Course Title
Noise Control

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4930

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: MATH 2120 and PHYS 2110. Identification and description of noise sources and noise radiation, methods of noise measurement and criteria for noise levels, principles and techniques of noise control.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 2120 and PHYS 2110.

Course Information

Course Title
Undergraduate Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
ME

Course Number
4990

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Approval of course instructor and department chairman. Investigation of current research and development interests. May be taken by a single student or by a small group of students if the investigation requires. Because of the impossibility of duplicating the conditions for the investigation, this course may not be repeated for the improvement of a grade.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Approval of course instructor and department chairman.

Course Information

Course Title
Introduction to Nuclear Energy

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
2110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduces how nuclear energy is produced and why it plays an important role in modern society. Develops a conceptual understanding of radiation, nuclear reactions, and neutron behavior, and shows how these principles are used in engineered nuclear systems. Students examine representative reactor concepts, major design approaches, and the evolution of nuclear technologies to illustrate how different systems serve different goals. Places nuclear energy in context by exploring the nuclear fuel cycle and its role in supporting safe and effective energy production. Learning activities emphasize interpretation, comparison, and systems thinking to build a broad foundation for further study of nuclear energy.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 1730 (C or better) or ACT MATH 27 or better

Course Information

Course Title
Radiation Protection & Safety

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
2120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Provides students with the knowledge needed to understand how radiation affects people and how its use is managed safely. Focuses on radioactive decay, radiation interactions, and the biological effects of exposure, leading to a practical understanding of dose and risk. Students explore how radiation is detected, measured, and controlled, and how time, distance, and shielding guide the safe use of radiation. Examines the benefits and risks of nuclear technologies and introduces the concept of nuclear safety culture and its development over time. Considers the importance of clear communication with nontechnical audiences. Activities emphasize applied reasoning, interpretation of measurements, and discussion of real world safety decisions.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
NE 2110

Course Information

Course Title
Nuclear Regulation and Safety

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
2130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduces students to how nuclear technologies are governed to ensure safety, reliability, and public trust. Examines the roles of laws, regulations, standards, and guidance in shaping nuclear facility design, operation, and oversight. Students study concepts such as defense in depth, qualification of structures and components, and the development and maintenance of a facility licensing basis. Extends this perspective to later phases of the nuclear facility life cycle, including license renewal, decommissioning, transportation of nuclear materials, and management of radioactive waste and spent fuel. Learning activities focus on understanding regulatory frameworks, evaluating safety decisions, and connecting technical systems to institutional processes.

College/School
Engineering

Syllabus
NE 2130-ABET Syllabus-2026.pdf

Requisites and Restrictions

Prerequisite:
NE 2110

Course Information

Course Title
Nuclear Reactor Theory

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
3210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduces the physical principles and analytical methods used to describe neutron behavior in nuclear reactors. Develops understanding of nuclear fission, neutron interactions, moderation, and the energy distribution of neutrons in reactor systems. Students examine concepts such as multiplication factor, reactivity, and neutron flux, and learn how these quantities determine reactor behavior and power distribution. The course introduces mathematical models used to analyze reactor systems, including neutron transport and reactor kinetics. Learning activities emphasize development and application of analytical models to interpret neutron behavior and evaluate reactor performance

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 1920, NE 2120 (may be taken concurrently), NE 2130 (may be taken concurrently)

NE 3220: Computational Methods for Nuclear Engineers

Course Information

Course Title
Computational Methods for NE

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
3220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduces computational methods used to model and analyze systems in nuclear engineering. Develops understanding of how numerical approaches are used to represent physical processes such as particle transport, heat transfer, structural behavior, and fluid flow. Students learn the principles behind methods such as Monte Carlo simulation, finite element analysis, and computational fluid modeling, and apply these methods to representative problems in nuclear engineering. The course also emphasizes verification and validation of computational models and the interpretation of simulation results. Learning activities focus on building and executing computational models, working within a command line environment, and communicating technical results.

College/School
Engineering

Syllabus
NE 3220-ABET Syllabus-2026.pdf

Requisites and Restrictions

Prerequisite:
NE 3210, ME 3710, ME 3720, MATH 3470

NE 3230: Radiation Detection and Measurement

Course Information

Course Title
Rad Detection and Measurement

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
3230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduces the principles used to detect and measure radiation in scientific and engineering applications. Develops understanding of radiation sources, radiation interactions, and the operation of common detection systems. Students examine how electronic instrumentation and statistical methods are used to collect and interpret radiation measurements. Laboratory activities emphasize proper measurement techniques, analysis of experimental data, and clear presentation of procedures, results, and conclusions.

College/School
Engineering

Syllabus
NE 3230-ABET Syllabus-2026.pdf

Requisites and Restrictions

Prerequisite:
NE 2120, MATH 3470 (may be taken concurrently)

Course Information

Course Title
Nuclear Reactor Engineering

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
3240

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduces how nuclear reactors are designed and operated to produce energy safely and reliably. Develops understanding of major reactor systems and safety systems and how design principles such as defense in depth guide reactor operation and protection. Students examine how heat is generated in reactor fuel and how thermal and fluid systems remove this heat during normal operation and transient conditions. Topics include coolant flow behavior, heat transfer in reactor cores, power distribution, and the role of thermal limits in maintaining safety margins. The course also explores accident scenarios, lessons learned from historical reactor accidents, and the use of probabilistic risk assessment to evaluate reactor safety. Learning activities emphasize analysis of reactor behavior, interpretation of thermal hydraulic performance, and evaluate reactor performance.

College/School
Engineering

Syllabus
NE 3240-ABET Syllabus-2026.pdf

Requisites and Restrictions

Prerequisite:
NE 3210, ME 3710, ME 3730

Course Information

Course Title
Nuclear Engineering Design I

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
4211

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Principles of engineering design with emphasis on nuclear energy systems. Project proposal writing, preliminary design, supporting analyses and drawings.

College/School
Engineering

Syllabus
NE 4211-ABET Syllabus-2026.pdf

Requisites and Restrictions

Prerequisite:
NE 3220, NE 3240

Course Information

Course Title
Nuclear Engineering Design II

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
4212

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Design, development, and demonstration as applied to a nuclear energy system component, instrumentation, device. The use of software platforms, equipment needed to complete the design and demonstration, and other tools (such as 3-D printing) should be part of the design tasks. Consider non-nuclear components of a power plant or an experimental system. Preparation of a project final report and presentation are required.

College/School
Engineering

Syllabus
NE 4212-ABET Syllabus-2026.pdf

Requisites and Restrictions

Prerequisite:
NE 4211

Course Information

Course Title
Nuclear Reactor Dyn & Control

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
4220

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Course Description
Prerequisite: NE 4210. Nuclear fission, chain reactions, elastic scattering, neutron cross sections, neutron moderation (slowing down), neutron energy spectrum, nuclear data; multiplication factor and reactivity; neutron transport equation; one-speed neutron diffusion model; point reactor kinetics equations and spatial effects in reactor kinetics; reactivity feedback effects; light water reactors and sodium fast reactors; multi-group diffusion theory; calculation of core power distribution.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
NE 4210.

Course Information

Course Title
Nuclear Reactor Operations

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
4230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Provides students with practical experience in the operation and control of nuclear reactors in a controlled learning environment. Develops understanding of how reactor systems respond during startup, steady operation, shutdown, and transient conditions. Students apply concepts from reactor theory and engineering to monitor reactor behavior, interpret instrumentation, and make operational decisions. The course introduces standard operating procedures, technical specifications, and responses to off-normal conditions, emphasizing safe and disciplined reactor operation. Learning activities include team-based simulator exercises, analysis of reactor behavior, and communication of operational data and conditions.

College/School
Engineering

Syllabus
NE 4230-ABET Syllabus-2026.pdf

Requisites and Restrictions

Prerequisite:
NE 3210, NE 3230

Course Information

Course Title
Nuclear Fuel Cycle

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
4240

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduces how nuclear fuel is produced, used, and managed across the full nuclear fuel cycle. Develops understanding of the processes that transform natural uranium into reactor fuel and the technical, economic, and policy considerations that shape these processes. Students examine stages of the fuel cycle including resource extraction, enrichment, fuel fabrication, in-core fuel management, and the handling of spent nuclear fuel and radioactive waste. The course also considers trade-offs among different fuel cycle strategies, including once-through and recycling approaches, and their implications for cost, sustainability, safety, and proliferation. Learning activities emphasize systems-level analysis, evaluation of competing approaches, and communication of complex technical and policy issues.

College/School
Engineering

Syllabus
NE 4240-ABET Syllabus-2026.pdf

Requisites and Restrictions

Prerequisite:
NE 2120, NE 2130

Course Information

Course Title
Nuclear Energy Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
4400

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Topics related to nuclear energy systems and radiological engineering with emphasis on ongoing activities in the nuclear industry. Students are expected to develop an understanding of engineering ethics, life-long learning, energy independence and other topics. Learning activities include presentations by student teams and guest speakers on various topics.

College/School
Engineering

Syllabus
NE 4400-ABET Syllabus-2026.pdf

Course Information

Course Title
Intro to Indust. Maint. Tech.

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
4510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 3470. Principles of reliability and maintainability engineering, and maintenance management. Topics include information extraction from machinery measurements; vibration monitoring and rotating machinery diagnostics; nondestructive testing; lubrication oil analysis; thermography; plant instrumentation for machinery health monitoring and maintenance on demand; establishing a predictive maintenance program, its evaluation, performance metrics. Presentation by industry experts.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 3470

Course Information

Course Title
Adv. Reactors and SMR

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
4520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: NE 4210. Advantages and disadvantages of advanced reactors, considering cost and construction; advanced reactor marketplace; evolutionary and developmental reactors - light water reactors, pressurized heavy water reactors, gas-cooled reactors, liquid metal reactors, molten salt reactors (MSRs); small modular reactors (SMRs, 20-300 MWe) and micro-reactors (1-20 MWe) for remote deployment; features of SMRs such as small LWRs, GCRs, MSRs; dynamic characteristics of current SMRs under development and construction; IAEA report on small and medium reactors.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
NE 4210

Course Information

Course Title
Special Topics in Nuclear Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
NE

Course Number
4900

Credit Hours

Credit Hours:
1

Credit Hours:
3

Lecture Hours

Min:
1

Max:
3

Course Description
Prerequisite: Senior standing. Special topics of current interest in nuclear engineering that are not covered in existing courses. Because of the impossibility of duplicating the conditions for a special topic, this particular topic may not be repeated for the improvement of a grade.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
Senior standing.

Course Information

Course Title
Intro to Automotive Systems

Academic Level (Course Level)
Undergraduate

Course Subject Code
VE

Course Number
3400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing in engineering; consent of instructor. Introduction to a vehicle as a complex system, interactions of the subsystems in terms of overall performance. Overview of propulsion systems, suspensions and steering systems, tire-road interface, structural behavior and crash worthiness, materials and manufacturing, driver-passenger vehicle interactions, and onboard electronics.

College/School
Engineering

Course Information

Course Title
Sensors, Transducers,Instrmn

Academic Level (Course Level)
Undergraduate

Course Subject Code
VE

Course Number
3500

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Introduction to sensors used in vehicles including: oxygen, tire pressure, emission, temperature, blind spot monitoring, etc. Focus on principles of measurements, theory of instruments and sensors for measuring typical physical quantities in mechanical and electrical systems. Calibration, measurement uncertainty and noise.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ECE 2050 or ECE 2850

Prerequisite or corequisite:
PHYS 2120

Course Information

Course Title
Autonomous Vehicles

Academic Level (Course Level)
Undergraduate

Course Subject Code
VE

Course Number
4050

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: ENGR 1120 or CSC 1300; MATH 1920; VE 3400; VE 3500 or ME 3023 or ECE 2050, or consent of instructor. VE 3500, or ME 3023 or ECE 2050 may be taken concurrently. This course provides students with foundational knowledge on autonomous vehicle systems. Students learn about the software and hard ware architectures of an autonomous vehicle. It also covers some of the perception and control techniques along with an introduction to connected vehicles and their recent applications.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ENGR 1120 or CSC 1300; MATH 1920; VE 3400; VE 3500 or ME 3023 or ECE 2050, or consent of instructor. Can be taken concurrently: VE 3500 or ME 3023 or ECE 2050.

Course Information

Course Title
Senior Design Project I - ME

Academic Level (Course Level)
Undergraduate

Course Subject Code
VE

Course Number
4100

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Principles of vehicle engineering design with emphasis on contemporary industrial design processes and engineering economics with applications in product design. Development phase for capstone team design project in vehicle engineering: preliminary design, supporting analyses and drawings with bill of materials.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
ME 2910, ME 3001, ME 3610, ME 3710, ME 3720, ME 4010 or ME 3020, VE 3500.

Prerequisite or corequisite:
ME 3050, ME 3060 or ME 3320, ME 4020 or ME 4720.

Course Information

Course Title
Senior Design Project I - EE

Academic Level (Course Level)
Undergraduate

Course Subject Code
VE

Course Number
4102

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: C or better in CSC 1310, C or better in ECE 2140, C or better in ECE 3050, C or better in ECE 3130, C or better in ECE 3330, C or better in ECE 3920, C or better in MATH 2010, C or better in MATH 2110, C or better in MATH 3470, C or better in VE 3400, and senior standing. The first in a sequence of two capstone design project courses. Principles of engineering design with emphasis on contemporary vehicle engineering applications. Product cost economics analysis with underlying principles related to cost of money and breakeven analysis. Project proposal writing, preliminary design, supporting analyses and drawings with bill of materials ready to fabricate the following semester.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in CSC 1310, C or better in ECE 2140, C or better in ECE 3050, C or better in ECE 3130, C or better in ECE 3330, C or better in ECE 3920, C or better in MATH 2010, C or better in MATH 2110, C or better in MATH 3470, C or better in VE 3400, and senior standing.

Course Information

Course Title
Senior Design Project II - ME

Academic Level (Course Level)
Undergraduate

Course Subject Code
VE

Course Number
4200

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisites: VE 4100; or consent of instructor. Prototyping and testing phase for capstone team design project in vehicle engineering. Final design reporting (written and oral).

College/School
Engineering

Requisites and Restrictions

Prerequisite:
VE 4100 or consent of instructor.

Course Information

Course Title
Senior Design Project II - EE

Academic Level (Course Level)
Undergraduate

Course Subject Code
VE

Course Number
4202

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
4

Course Description
Prerequisite: C or better in VE 4102. The second in a sequence of two capstone design project courses. Prototyping and testing phase for capstone team design project in vehicle engineering. Final design reporting (written and oral).

College/School
Engineering

Requisites and Restrictions

Prerequisite:
C or better in VE 4102.

Course Information

Course Title
Reliability & Quality Engr

Academic Level (Course Level)
Undergraduate

Course Subject Code
VE

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 3470 or ENGR (CEE) 3720. Basic engineering and statistics principles as well as advanced tools focusing on design of experiment, statistical process control and reliability engineering are presented. Theoretical and practical methods to improve the capability of systems to perform their designated functionalities, to predict the probability of their functioning without failures in certain environments for desired periods, to assess their maintainability, availability and safety based on sampled data, and to make decisions on corrective and mitigation.

College/School
Engineering

Requisites and Restrictions

Prerequisite:
MATH 3470 or ENGR (CEE) 3720.

Military Science Department

U.S. Army Reserve Officers' Training Corps

Lieutenant Colonel Benjamin Sweeney,
Professor of Military Science

Objective

Tennessee Technological University hosts a Senior Division of the Army Reserve Officers' Training Corps (ROTC). The objective of this ROTC is to transform enrolled students into leaders of character that thrive in chaos to serve as Commissioned Officers in the Army Reserve, National Guard, and Active Army. The Lower Division curriculum provides the student with an appreciation of the responsibilities of each American toward National Defense. The Upper Division curriculum develops the world's premier leaders in the United States Army.

Institutional Requirements

Military Science is voluntary for all students. Students incur no military obligation by attending Lower Division Military Science classes during their freshman and/or sophomore years.

Senior ROTC Program

The General Military Science curriculum is in effect at this University. Classes in Military Science for the Upper and the Lower Division are offered during both Fall and Spring Semesters.

The Senior Division ROTC Program includes four years of college work and is divided into (1) Lower Division and (2) Upper Division.

1. The Lower Division (Military Science (MS) I and MS II) comprises the first two years of college ROTC, and each semester consists of classroom instruction and leadership laboratory. Attendance at Basic Camp for four weeks of summer training at Fort Knox may be required in order to start Upper Division. Some field training on weekends is required.
2. The Upper Division (MS III and MS IV) comprises the last two years of college ROTC, and each year consists of three hours per week including classroom instruction and leadership application. Additionally, Physical Training and Leadership Labs are conducted for a total of four hours per week. Attendance at Advanced Camp of five weeks is required between the junior and senior years. Some field training on weekends is required. The Upper Division culminates in commissioning as a Second Lieutenant in the United States Army upon graduation from the University.

Requirements for Commissioning

In order to receive a commission as a Second Lieutenant, the student must satisfy the following requirements:

1. Successfully complete the Lower and Upper Division course requirements. Lower Division requirements can be satisfied by completing MS 1010, MS 1020, MS 2010, and MS 2020 or substituting previous military experience (See Paragraph: Credits for Previous ROTC Training or Active Military Service). The courses listed below constitute the Upper Division Advanced Course:

MS 3010	Fall Semester
MS 3020	Spring Semester
MS 3040 (Basic Camp)	Summer
MS 4010	Fall Semester
MS 4020	Spring Semester

In addition to the classes listed above, students enrolled in the Upper Division must take MS 3000-01/MS 4000-01 (Physical Training) each semester.

2. Meet ROTC commissioning requirements, the Army's Height/Weight standards and pass the Army Physical Fitness Test.
3. In addition to the Lower and Upper Division Courses, the student must complete a military history course or two semesters of U.S. History. The student should confer with the Professor of Military Science to determine which course will satisfy this requirement.
4. Meet graduation requirements.

Scholarships and Financial Aid

The ROTC Program offers 4-year, 3-year, and 2-year scholarships to qualified students. Additionally, contracted students receive a monthly financial stipend of $420 monthly. The Professor of Military Science offers a limited number of University dorm room scholarships for designated use. Advance course students and all scholarship students receive a monthly subsistence allowance during the school year. Students are also paid for the period of their attendance at the Basic Camp and Advanced Camp. National Army ROTC scholarship applications can be made at www.armyrotc.com.

Enrollment Requirements

The general requirements for enrollment and continuance in ROTC are: (a) citizen of the United States, (b) physically and medically qualified, (c) accepted by the university as a full-time student, (d) morally qualified, and (e) meet Army age requirements.

Enrollment in the Upper Division is not open to all students completing the Lower Division but only to those whose ROTC and academic records demonstrate that they will become quality Officers in the Army of the United States.

Students who transfer from colleges or universities without ROTC programs may attend a paid four-week Basic Camp to meet the prerequisites of Upper Division. Any students who desire to participate in this program should contact the Military Science Department prior to the end of their first semester.

Dis-enrollment

Students may be dis-enrolled for failure to meet physical or academic standards, for disciplinary reasons, or for lack of Officer-like aptitudes. A student once formally enrolled in Upper Division may be discharged from the ROTC program in the event he/she is placed on academic probation by institutional authorities as the result of substandard academic grades.

Credits for Previous ROTC Training or Active Military Science

College credit is allowed for ROTC training successfully completed at other institutions.

Students who have completed Basic Training with any military service of the United States, to include Reserves and National Guard, may receive credit for Military Science courses, as jointly determined by the President of the University and the Professor of Military Science. Credit given will not exceed 8 hours of Basic Course credit. A student requesting credit for prior ROTC training or Active Military Service must obtain a certificate from the Professor of Military Science.

Minor in Military Science

A minor in Military Science is available to those students enrolled in and successfully completing six credit hours of Upper Division and a total of 15 elective credit hours of ROTC, Upper or Lower Division.

ROTC Special Activities

The Military Science department has clubs to promote special activities related to ROTC that include the Scabbard and Blade Society, Tech Rangers, Color Guard, Officer Christian Fellowship and Society of American Military Engineers.

Programs

LMS-MIN - Leadership & Military Science Minor

Program Overview

Program Long Title
Leadership & Military Science Minor

College/School
Independent Programs

Department(s)
Military Science

Requirements

Simple Requirements

A minor in Military Science is available to those students enrolled in and successfully completing six credit hours of Upper Division and a total of 15 elective credit hours of ROTC, Upper or Lower Division.

Note:

A maximum of four (4) credits allowed in MS activity courses (MS 1000, MS 1001, MS 2000, MS 2001, MS 3000, MS 3001, MS 4000, and MS 4001) as part of the minor.

Courses

Course Information

Course Title
Basic Physical Conditioning

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
1000

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Physical Fitness Program to develop stamina, flexibility, coordination, speed, and upper body strength and to enhance lifestyle.

College/School
Independent Programs

Course Information

Course Title
Basic Physical Conditioning

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
1001

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Physical Fitness Program to develop stamina, flexibility, coordination, speed, and upper body strength and to enhance lifestyle.

College/School
Independent Programs

Course Information

Course Title
Fundamental Concepts

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
1010

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Repeatable for Credit:
No

Course Description
Prerequisite: Academically aligned as a Freshman or Sophomore in degree of study. Fundamental components of service as an officer. Addresses "life skills," including fitness, communications theory, and interpersonal relationships.

College/School
Independent Programs

Requisites and Restrictions

Prerequisite:
Prerequisite: Academically aligned as a Freshman or Sophomore in degree of study.

Course Information

Course Title
Basic Leadership

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
1020

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisite: Academically aligned as a Freshman or Sophomore in degree of study. Builds upon previous semester and introduces problem-solving, critical thinking, leadership theory, followership, group interaction, goal setting, and feedback mechanisms.

College/School
Independent Programs

Requisites and Restrictions

Prerequisite:
Prerequisite: Academically aligned as a Freshman or Sophomore in degree of study.

Course Information

Course Title
Basic Physical Conditioning

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
2000

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Army PT Program to develop stamina, flexibility, coordination, speed, upper body strength, self-discipline, and health, and to enhance lifestyle.

College/School
Independent Programs

Course Information

Course Title
Basic Physical Conditioning

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
2001

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Army PT Program to develop stamina, flexibility, coordination, speed, upper body strength, self-discipline, and health, and to enhance lifestyle.

College/School
Independent Programs

Course Information

Course Title
Advanced Leadership

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
2010

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: MS 1010 and 1020 or permission of Professor of Military Science. Principal leadership instruction of the Basic Course. Building on the fundamentals introduced in the MS I year, this class delves into several aspects of communication and leadership theory.

College/School
Independent Programs

Requisites and Restrictions

Prerequisite:
MS 1010 and MS 1020 or permission of Professor of Military Science.

Course Information

Course Title
Tactics and Officership

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
2020

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: MS 1010, 1020, and 2010 or permission of Professor of Military Science. An extensive examination of the unique purposes, roles and obligations of commissioned officers. Includes a detailed look at the origin and practical application of the Army's institutional values.

College/School
Independent Programs

Requisites and Restrictions

Prerequisite:
MS 1010, MS 1020, and MS 2010 or permission of Professor of Military Science.

Course Information

Course Title
Basic Course

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
2800

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Five weeks of training during the summer conducted at an Army Post consisting of leadership, small unit tactics, weapons, drill, and a writing assignment due two weeks after five weeks of training.

College/School
Independent Programs

Course Information

Course Title
Adv Physical Conditioning

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
3000

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Army Physical Fitness Program to develop stamina, flexibility, coordination, speed, upper body strength, self-discipline, and health and to enhance lifestyle.

College/School
Independent Programs

Course Information

Course Title
Adv Physical Conditioning

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
3001

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Army Physical Fitness Program to develop stamina, flexibility, coordination, speed, upper body strength, self-discipline, and health and to enhance lifestyle.

College/School
Independent Programs

Course Information

Course Title
Small Unit Leadership

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
3010

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Leadership and development through study and practical application of principles of social sciences, and management and military tactics.

College/School
Independent Programs

Course Information

Course Title
Small Unit Operations

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
3020

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Practical application of leadership skills. Techniques for planning, organizing, and decision-making in military operations.

College/School
Independent Programs

Course Information

Course Title
Cadet Leader Course (CLC)

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
3040

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisites: MS 3010 and 3020. Five weeks of training conducted at an Army Post evaluating practical application of classroom skills and developing leadership potential.

College/School
Independent Programs

Requisites and Restrictions

Prerequisite:
MS 3010 and MS 3020.

Course Information

Course Title
Intro/Officer Professional Dev

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
3222

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
The course is designed to foster and instill necessary life-long learning necessary for the Military professional.

College/School
Independent Programs

Course Information

Course Title
US Military History

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
3600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Must be enrolled as a Cadet in ROTC program to take this course. This course covers US Military History from 1607 to present day. The purpose of this course is to provide the Reserve Officer Training Corps (ROTC) Cadets the knowledge and understanding of the relationship between the military and American Society and the value of military history to the professional officer. Completion of this block of instruction is a prerequisite for commissioning as a Lieutenant in the United States Army.

College/School
Independent Programs

Requisites and Restrictions

Prerequisite:
Enrollment in ROTC.

Course Information

Course Title
Adv Physical Conditioning

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
4000

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
Application of planning/conducting Army Physical Fitness Program.

College/School
Independent Programs

Course Information

Course Title
Adv Physical Conditioning

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
4001

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
Application of planning/conducting Army Physical Fitness Program.

College/School
Independent Programs

Course Information

Course Title
Adv Physical Conditioning

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
4002

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
Prerequisite: Consent of instructor. Army Physical Fitness Program.

College/School
Independent Programs

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Adv Physical Conditioning

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
4003

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
Prerequisite: Consent of instructor. Army Physical Fitness Program.

College/School
Independent Programs

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Leadership, Mgmt & Ethics

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
4010

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Techniques of military leadership, communications, ethics and decision-making process. Includes research and writing requirements.

College/School
Independent Programs

Course Information

Course Title
Transition to Lieutenant

Academic Level (Course Level)
Undergraduate

Course Subject Code
MS

Course Number
4020

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Course Description
Advanced techniques in leadership, planning and decision-making. Includes research, writing requirements, and battlefield study trip.

College/School
Independent Programs

Music Department

Director Hill; Professors Allcott (Orchestra/Violoncello), Chang (Violin/Viola), Harris (Live Audio), Hauser (Trombone/Theory), McCormick (Jazz Studies), Mullen (Musical Theatre), Pulte (Voice), Shank (Music Education), Zamer (Choral); Associate Professors Adduci (Oboe), Cramer (Clarinet), Godes (Piano), Hagarty (Trumpet), Miller (Band), Reames (Voice), Womack (Bassoon); Assistant Professors Çakir-Ramsey (Flute), Candey (Theory/Composition), Light (Tuba/Euphonium), Stanley (Horn), Xu (Music Education), Younglove (Saxophone); Senior Lecturer Thurmond

The School of Music provides an intellectual and creative environment for the study and production of the performing arts. The faculty emphasizes quality instruction, in both the classroom and the studio, embraces innovation, and acknowledges the role of technology in meeting the academic and artistic needs of the students. The School of Music prepares students for careers in music, enables students to enrich their lives by participating in music activities, instills in all University students an appreciation of music and the visual arts, and broadens the cultural perspective of the community, state, and region.

Programs

LAUD-MIN - Live Audio Arts and Sciences Minor

Program Overview

Program Long Title
Live Audio Arts and Sciences Minor

College/School
Fine Arts

Department(s)
Music

Requirements

Simple Requirements

Live Audio Arts and Sciences Minor

Type
Completion Requirement

Live Audio Arts and Sciences (LAUD) Minor

This minor requires 15 hours in the following:

- MUSA 1001 – Live Audio Intro A (2 credits)
- MUSA 1002 – Live Audio Intro B (2 credits)
- MUSA 2001 – Live Audio Intmed A (2 credits)
- MUSA 2002 – Live Audio Intmed B (2 credits)
- MUS 1011 – Piano I (1 credit)
- MUS 1120 – Harmony I (3 credits)
- MUS 1130 – Aural Techniques I (1 credit)
- MUSA/MUS Electives – 2 credits

MHST-MIN - Music History Minor

Program Overview

Program Long Title
Music History Minor

College/School
Fine Arts

Department(s)
Music

Requirements

Simple Requirements

Music History Minor

Type
Completion Requirement

Music History (MHST) Minor

15 hours required in:

MUS 1030 - Music Appreciation MUS 1120 - Harmony I MUS 3010 - Music History and Literature I (prerequisite: MUS 1030) MUS 3020 - Music History and Literature II (prerequisite: MUS 1030) MUS Applied Study (2 semesters required), and MUS Ensemble.

MTC-MIN - Music Theory and Composition Minor

Program Overview

Program Long Title
Music Theory and Composition Minor

College/School
Fine Arts

Department(s)
Music

Requirements

Simple Requirements

Music Theory and Composition Minor

Type
Completion Requirement

Music Theory and Composition (MTC) Minor

MUS 1030 - Music Appreciation MUS 1120 - Harmony I MUS 1140 - Harmony II MUS Applied Composition Lessons MUS Applied Instrumental Lessons MUS Ensemble MUS Elective Credit (3 credits).

*Total of Applied lessons and ensembles must be no less than 3 credits. **Elective credits can be fulfilled with additional applied study (up to 2 credits) and/or ensemble(s) (up to 3 credits).

MTEC-MIN - Music Technology Minor

Program Overview

Program Long Title
Music Technology Minor

College/School
Fine Arts

Department(s)
Music

Requirements

Simple Requirements

Music Technology Minor

Type
Completion Requirement

Music Technology (MTEC) Minor

15 hours required in:

MUS 1030 - Music Appreciation MUS 1120 - Harmony I MUS 4250 - Recording Techniques MUS 4510 - Computer Applications in Music MUS Applied Lessons (1 credit/semester maximum) MUS Ensembles MUS Elective Credit (2 credits)

*Total of Applied lessons and ensembles must be no less than 3 credits.

MUPE-MIN - Music Performance Minor

Program Overview

Program Long Title
Music Performance Minor

College/School
Fine Arts

Department(s)
Music

Requirements

Simple Requirements

Music Performance Minor

Type
Completion Requirement

Music Performance (MUPE) Minor

15 hours required in:

MUS 1030 - Music Appreciation MUS 1120 - Harmony I MUS Applied Lessons (3-4 semesters) MUS Ensemble (3-4 semesters) MUS Elective(s) (1-3 credits).

Total of Applied lessons and ensembles must be no less than 6 credits.

MUS-MUIN - Music, Instrumental/General Music, K-12 Licensure Concentration, B.M.

Program Overview

Program Long Title
Music, Instrumental/General Music, K-12 Licensure Concentration, B.M.

College/School
Fine Arts

Department(s)
Music

Degree Map

Degree Map Name
Degree Plan - Music, Instrumental/General Music, K-12 Licensure Concentration, B.M.
Total Degree Map Credits
123
Degree Map Effective Catalog Year
2526 -

Degree Map Narrative

Additional Licensure: Vocal/General Music Education The student must satisfy current TTU requirements for the B.M. in Music Education, MUIN.

• MUED 3140 - Materials and Methods in Vocal Music, Grades 6-12 Credit: 3.

• MUS 1200 - Private Voice Credit: 1-2.

• MUS 1210 - Diction for Singers I Credit: 1.

• MUS 1220 - Diction for Singers II Credit: 1.

• MUS 1060 - Chorale Credit: 0-1. or

• MUS 1070 - Concert Choir Credit: 0-1.

• MUS 3800 - Vocal Pedagogy and Literature I Credit: 2

Year	Semester	Actual Credits
Freshman Year	First Semester	13

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1021 - Class Voice Techniques I

Actual Credits 1

Requirement Select
- MUS1120 - Harmony I

Actual Credits 3

Requirement Select
- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- MUS1070 - Concert Choir

Actual Credits 1

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Instrument Techniques Class (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- MUED1820 - Intro to Music Ed

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1023 - Intrm Class Piano/Mus Mjrs III

Actual Credits 1

Requirement Select
- MUS2110 - Harmony III

Actual Credits 2

Requirement Select
- MUS2120 - Aural Techniques III

Actual Credits 1

Requirement Select
- MUS3010 - Music History & Lit I

Actual Credits 3

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Instrument Techniques Class (Generic)

Actual Credits 1

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MUED4850 - Workshop in Music Ed

Actual Credits -

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- MUS2210 - Psychology of Music

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1024 - Intrm Class Piano/Mus Mjrs IV

Actual Credits 1

Requirement Select
- MUS2130 - Harmony IV

Actual Credits 2

Requirement Select
- MUS2140 - Aural Techniques IV

Actual Credits 1

Requirement Select
- MUS3020 - Music History & Lit II

Actual Credits 3

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Instrument Techniques Class (Generic)

Actual Credits 1

Requirement Select
- MUED4850 - Workshop in Music Ed

Actual Credits -

Year	Semester	Actual Credits
Junior Year	First Semester	17

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.
  OR
- NURS2600 - Communication in Health Care

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MUED3110 - Mtrl & Meth in Music/K-5

Actual Credits 3

Requirement Select
- MUED3620 - Fundamentals of Conducting

Actual Credits 1

Requirement Select
- MUED3230 - Marching Band Techniques
  OR
- MUED3735 - String Pedagogy/Literature I

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS4510 - Computer App In Music

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Instrument Techniques Class (Generic)

Actual Credits 1

Requirement Select
- MUED4850 - Workshop in Music Ed

Actual Credits -

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MUED3130 - Mtrls/Mthds-Instr Mus, 6-12

Actual Credits 3

Requirement Select
- MUED3630 - Instrumental Conducting & Lit

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3130 - Form and Analysis

Actual Credits 2

Requirement Select
- MUS3210 - Instrumentation

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Instrument Techniques Class (Generic)

Actual Credits 1

Requirement Select
- MUED4850 - Workshop in Music Ed

Actual Credits -

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- MUS4000 - Senior Recital

Actual Credits 1

Requirement Select
- MUED3811 - Practicum in Music Education

Actual Credits 3

Requirement Select
- MUED4850 - Workshop in Music Ed

Actual Credits 2

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Flight Foundations Flexible Elective (1 cr.)-select from Scientific Reasoning or Financial or Digital Literacy (Generic)

Actual Credits 1

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- MUED4881 - Residency II

Actual Credits 10

Requirement Select
- MUED4882 - Professional Seminar II

Actual Credits 2

Requirement Select
- Instrument Techniques classes, 5 hours. Take MUS 1031 , MUS 1041 , and MUS 1051 , plus two from: MUS 1032 (string students), MUS 1042 (brass and percussion students), MUS 1052 (woodwind and percussion students), MUS 1071 (woodwind, brass, strings, piano and guitar students) or MUS 1081 (piano and guitar students). 2 Must submit evidence of current First Aid/CPR training. (Generic)

Actual Credits -

Requirement Select
- • Participate each semester in the Ensemble of Record specific to the student's instrument: • Piano: Vocal Track: University Choirs; Instrumental Track: University Bands, University Orchestra, or University Jazz Bands • Guitar: University Choirs or University Jazz Bands, or Marching Band • Strings: University Orchestra • Voice: Concert Choir or Chorale • Wind/Percussion: Fall Semester – Marching Band (first 3 years), University Jazz Bands, Chamber Winds, or Orchestra. Spring Semester – Symphony Band or Concert Band as assigned by audition. (Generic)

Actual Credits -

Requirement Select
- Instrumental Techniques electives (5 cr) - MUS 1031, MUS 1041, MUS 1051, and 2 classes from MUS 1032, 1042, 1052, 1071, and 1081.
(Generic)

Actual Credits -

MUS-MUPE-COMP - Music, Music Performance Concentration, Composition Option, B.M.

Program Overview

Program Long Title
Music, Music Performance Concentration, Composition Option, B.M.

College/School
Fine Arts

Department(s)
Music

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - Music, Music Performance Concentration, Composition Emphasis, B.M.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- MUS1000 - Private Composition

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1021 - Class Voice Techniques I

Actual Credits 1

Requirement Select
- MUS1120 - Harmony I

Actual Credits 3

Requirement Select
- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MUS1000 - Private Composition

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1070 - Concert Choir

Actual Credits 1

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MUS1000 - Private Composition

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1023 - Intrm Class Piano/Mus Mjrs III

Actual Credits 1

Requirement Select
- MUS2110 - Harmony III

Actual Credits 2

Requirement Select
- MUS2120 - Aural Techniques III

Actual Credits 1

Requirement Select
- MUS3010 - Music History & Lit I

Actual Credits 3

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- MUS1000 - Private Composition

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1024 - Intrm Class Piano/Mus Mjrs IV

Actual Credits 1

Requirement Select
- MUS2130 - Harmony IV

Actual Credits 2

Requirement Select
- MUS2140 - Aural Techniques IV

Actual Credits 1

Requirement Select
- MUS3020 - Music History & Lit II

Actual Credits 3

Requirement Select
- MUS4510 - Computer App In Music

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1100 - Private Piano

Actual Credits 1

Requirement Select
- MUS3000 - Private Composition

Actual Credits 2

Requirement Select
- MUS3130 - Form and Analysis

Actual Credits 2

Requirement Select
- MUS3950 - Junior Recital

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	Second Semester	17

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Flight Foundations requirement (4 cr. hr.) - select from approved Flight Foundations categories (Generic)

Actual Credits 4

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1100 - Private Piano

Actual Credits 1

Requirement Select
- MUS3000 - Private Composition

Actual Credits 2

Requirement Select
- MUS3140 - Counterpoint

Actual Credits 3

Requirement Select
- MUS3210 - Instrumentation

Actual Credits 2

Requirement Select
- Applied Music
  (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MUED3620 - Fundamentals of Conducting

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3000 - Private Composition

Actual Credits 2

Requirement Select
- MUS3220 - Jazz Composition/Arranging I

Actual Credits 2

Requirement Select
- MUS3710 - Pedagogy/Literature I

Actual Credits 2

Requirement Select
- MUS4120 - Contemporary Music

Actual Credits 2

Requirement Select
- Applied Music
  (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MUED3630 - Instrumental Conducting & Lit
  OR
- MUED3640 - Choral Conducting & Lit

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3000 - Private Composition

Actual Credits 2

Requirement Select
- MUS3720 - Pedagogy/Literature II

Actual Credits 2

Requirement Select
- MUS4000 - Senior Recital

Actual Credits 1

Requirement Select
- Applied Music
  (Generic)

Actual Credits 1

Requirement Select

- Major Ensemble (Generic)

Actual Credits 1

MUS-MUPE-INS - Music, Music Performance Concentration, Instrumental Option, B.M.

Program Overview

Program Long Title

Music, Music Performance Concentration, Instrumental Option, B.M.

College/School

Fine Arts

Department(s)

Music

Requirements

No Requirements

Degree Map

Degree Map Name

Degree Plan - Music, Music Performance Concentration, Instrumental Option, B.M.

Total Degree Map Credits

120

Degree Map Effective Catalog Year

2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select

- MUS1013 - Recital Class

Actual Credits -

Requirement Select

- MUS1021 - Class Voice Techniques I

Actual Credits 1

Requirement Select

- MUS1120 - Harmony I

Actual Credits 3

Requirement Select

- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- MUS1070 - Concert Choir

Actual Credits 1

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1023 - Intrm Class Piano/Mus Mjrs III

Actual Credits 1

Requirement Select
- MUS1081 - Improvisation I

Actual Credits 1

Requirement Select
- MUS2110 - Harmony III

Actual Credits 2

Requirement Select
- MUS2120 - Aural Techniques III

Actual Credits 1

Requirement Select
- MUS3010 - Music History & Lit I

Actual Credits 3

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1024 - Intrm Class Piano/Mus Mjrs IV

Actual Credits 1

Requirement Select
- MUS1082 - Improvisation II

Actual Credits 1

Requirement Select
- MUS2130 - Harmony IV

Actual Credits 2

Requirement Select
- MUS2140 - Aural Techniques IV

Actual Credits 1

Requirement Select
- MUS3020 - Music History & Lit II

Actual Credits 3

Requirement Select
- MUS4510 - Computer App In Music

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- MUED3620 - Fundamentals of Conducting

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3130 - Form and Analysis

Actual Credits 2

Requirement Select
- MUS3710 - Pedagogy/Literature I

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Minor Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- MUED3630 - Instrumental Conducting & Lit

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3210 - Instrumentation

Actual Credits 2

Requirement Select
- MUS3720 - Pedagogy/Literature II

Actual Credits 2

Requirement Select
- Flight Foundations (4 cr hr) - select from approved Flight Foundation categories (Generic)

Actual Credits 4

Requirement Select
- MUS3950 - Junior Recital

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Minor Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS4120 - Contemporary Music

Actual Credits 2

Requirement Select
- MUS4710 - Supervised Teaching Exp I

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Minor Ensemble (Generic)

Actual Credits 1

Requirement Select
- MUS4250 - Recording Techniques

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS4000 - Senior Recital

Actual Credits 1

Requirement Select
- Elective (2 cr.) (Generic)

Actual Credits 2

Requirement Select
- MUS4720 - Supervised Teaching Exp II

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select

- Minor Ensemble
  (Generic)

Actual Credits 1

Requirement Select

- Music Performance Admission to the Performance option is by recommendation of the studio instructor. Students in this option select an emphasis in Composition, Instrumental, Jazz, Piano or Vocal Performance. Students majoring in any Performance option must: • Enroll for private study in the major performing medium each semester of full-time residency. Four semesters of private study must be at the 3000 level. • Participate each semester in the Ensemble of Record specific to the student's instrument: Lower Division (Freshman and Sophomore) • Piano: University Choirs, University Bands or University Orchestra or University Jazz Bands • Guitar: University Choirs or University Jazz Bands, or Marching Band • Strings: University Orchestra • Voice: Concert Choir or Chorale • Wind/Percussion: Fall Semester – Marching Band (first year), University Jazz Bands, Chamber Winds, or Orchestra. Spring Semester – Symphony Band or Concert Band as assigned by audition Upper Division (Junior and Senior)
  (Generic)

Actual Credits -

MUS-MUPE-JZZ - Music, Music Performance Concentration, Jazz Option, B.M.

Program Overview

Program Long Title

Music, Music Performance Concentration, Jazz Option, B.M.

College/School

Fine Arts

Department(s)

Music

Degree Map

Degree Map Name

Degree Plan - Music, Music Performance Concentration, Jazz Option, B.M.

Total Degree Map Credits

120

Degree Map Effective Catalog Year

2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select

- MUS1013 - Recital Class

Actual Credits -

Requirement Select

- MUS1021 - Class Voice Techniques I

Actual Credits 1

Requirement Select

- MUS1120 - Harmony I

Actual Credits 3

Requirement Select

- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select

- Applied Music
  (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	14

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- MUS1070 - Concert Choir

Actual Credits 1

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1081 - Improvisation I

Actual Credits 1

Requirement Select
- MUS1023 - Intrm Class Piano/Mus Mjrs III

Actual Credits 1

Requirement Select
- MUS1090 - Jazz Ensemble

Actual Credits 1

Requirement Select
- MUS2110 - Harmony III

Actual Credits 2

Requirement Select
- MUS2120 - Aural Techniques III

Actual Credits 1

Requirement Select
- MUS3010 - Music History & Lit I

Actual Credits 3

Requirement Select
- MUS4510 - Computer App In Music

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1024 - Intrm Class Piano/Mus Mjrs IV

Actual Credits 1

Requirement Select
- MUS1082 - Improvisation II

Actual Credits 1

Requirement Select
- MUS1090 - Jazz Ensemble

Actual Credits 1

Requirement Select
- MUS2130 - Harmony IV

Actual Credits 2

Requirement Select
- MUS2140 - Aural Techniques IV

Actual Credits 1

Requirement Select
- MUS3020 - Music History & Lit II

Actual Credits 3

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- MUED3620 - Fundamentals of Conducting

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1090 - Jazz Ensemble

Actual Credits 1

Requirement Select
- MUS3130 - Form and Analysis

Actual Credits 2

Requirement Select
- MUS4110 - Hist & Lit of Jazz

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Flight Foundations (4 cr hr) - select from approved Flight Foundation categories (Generic)

Actual Credits 4

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1090 - Jazz Ensemble

Actual Credits 1

Requirement Select
- MUS3210 - Instrumentation

Actual Credits 2

Requirement Select
- MUS3950 - Junior Recital

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1090 - Jazz Ensemble

Actual Credits 1

Requirement Select
- MUS3220 - Jazz Composition/Arranging I

Actual Credits 2

Requirement Select
- MUS3710 - Pedagogy/Literature I

Actual Credits 2

Requirement Select
- MUS4000 - Senior Recital

Actual Credits 1

Requirement Select
- MUS4120 - Contemporary Music

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- MUS4250 - Recording Techniques

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1090 - Jazz Ensemble

Actual Credits 1

Requirement Select
- MUS3230 - Jazz Composition/Arranging II

Actual Credits 2

Requirement Select
- MUS3720 - Pedagogy/Literature II

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

MUS-MUPE-MUMW - Music, Music Performance Concentration, Multiple Woodwinds Option, B.M.

Program Overview

Program Long Title
Music, Music Performance Concentration, Multiple Woodwinds Option, B.M.

College/School
Fine Arts

Department(s)
Music

Degree Map

Degree Map Name
Degree Plan - Music, Music Performance Concentration, Multiple Woodwinds Option, B.M.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- Applied Music (Primary) (Generic)

Actual Credits 1

Requirement Select
- Applied Music (Secondary 1) (Generic)

Actual Credits 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1120 - Harmony I

Actual Credits 3

Requirement Select
- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select
- MUS1070 - Concert Choir

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- Applied Music (Primary) (Generic)

Actual Credits 1

Requirement Select
- Applied Music (Secondary 2) (Generic)

Actual Credits 1

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1023 - Intrm Class Piano/Mus Mjrs III

Actual Credits 1

Requirement Select
- MUS2110 - Harmony III

Actual Credits 2

Requirement Select
- MUS2120 - Aural Techniques III

Actual Credits 1

Requirement Select
- MUS3010 - Music History & Lit I

Actual Credits 3

Requirement Select
- Applied Music (Primary)
  (Generic)

Actual Credits 1

Requirement Select
- Applied Music (Secondary 3)
  (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1024 - Intrm Class Piano/Mus Mjrs IV

Actual Credits 1

Requirement Select
- MUS2130 - Harmony IV

Actual Credits 2

Requirement Select
- MUS2140 - Aural Techniques IV

Actual Credits 1

Requirement Select
- MUS3020 - Music History & Lit II

Actual Credits 3

Requirement Select
- MUS3710 - Pedagogy/Literature I

Actual Credits 2

Requirement Select
- Applied Music (Primary)
  (Generic)

Actual Credits 1

Requirement Select
- Applied Music (Secondary 4)
  (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	17

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUED3620 - Fundamentals of Conducting

Actual Credits 1

Requirement Select
- MUS1081 - Improvisation I
  OR
- MUS4120 - Contemporary Music

Actual Credits 2

Requirement Select
- MUS3720 - Pedagogy/Literature II

Actual Credits 2

Requirement Select
- MUS3950 - Junior Recital

Actual Credits 1

Requirement Select
- Applied Music (Primary)
  (Generic)

Actual Credits 1

Requirement Select
- Applied Music (Secondary
  (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Requirement Select
- Minor Ensemble
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- Flight Foundations (4 cr. hr.) - select from approved Flight Foundation categories
  (Generic)

Actual Credits 4

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3210 - Instrumentation

Actual Credits 2

Requirement Select
- MUS3730 - Pedagogy/Literature III

Actual Credits 2

Requirement Select
- MUS1082 - Improvisation II
  OR
- MUS4510 - Computer App In Music

Actual Credits 2

Requirement Select
- MUS4710 - Supervised Teaching Exp I

Actual Credits 2

Requirement Select
- Applied Music (Primary)
  (Generic)

Actual Credits 1

Requirement Select
- Applied Music (Secondary 2)
  (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Requirement Select
- Minor Ensemble
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3130 - Form and Analysis

Actual Credits 2

Requirement Select
- MUS1081 - Improvisation I
  OR
- MUS4120 - Contemporary Music

Actual Credits 1

Requirement Select
- MUS4250 - Recording Techniques

Actual Credits 2

Requirement Select
- MUS4720 - Supervised Teaching Exp II

Actual Credits 2

Requirement Select
- Applied Music (Primary)
  (Generic)

Actual Credits 1

Requirement Select
- Applied Music (Secondary 3)
  (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Requirement Select
- Minor Ensemble
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1082 - Improvisation II
  OR
- MUS4510 - Computer App In Music

Actual Credits 1

Requirement Select
- MUS4000 - Senior Recital

Actual Credits 1

Requirement Select
- MUS4650 - Mus Business/Entrepreneurship

Actual Credits 1

Requirement Select
- MUS4730 - Supervised Teaching Exp III

Actual Credits 2

Requirement Select
- Applied Music (Primary)
  (Generic)

Actual Credits 1

Requirement Select
- Applied Music (Secondary 4)
  (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Requirement Select
- Minor Ensemble
  (Generic)

Actual Credits 1

Requirement Select
- 120 earned hours is required to complete the degree.
  (Generic)

Actual Credits -

MUS-MUPE-PIA - Music, Music Performance Concentration, Piano Option, B.M.

Program Overview

Program Long Title
Music, Music Performance Concentration, Piano Option, B.M.

College/School
Fine Arts

Department(s)
Music

Degree Map

Degree Map Name
Degree Plan - Music, Music Performance Concentration, Piano Option, B.M.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1016 - Accompanying

Actual Credits 1

Requirement Select
- MUS1021 - Class Voice Techniques I

Actual Credits 1

Requirement Select
- MUS1120 - Harmony I

Actual Credits 3

Requirement Select
- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1016 - Accompanying

Actual Credits 1

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- MUS1070 - Concert Choir

Actual Credits 1

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1016 - Accompanying

Actual Credits 1

Requirement Select
- MUS1081 - Improvisation I

Actual Credits 1

Requirement Select
- MUS2110 - Harmony III

Actual Credits 2

Requirement Select
- MUS2120 - Aural Techniques III

Actual Credits 1

Requirement Select
- MUS3010 - Music History & Lit I

Actual Credits 3

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- MUS4510 - Computer App In Music

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1016 - Accompanying

Actual Credits 1

Requirement Select
- MUS1082 - Improvisation II

Actual Credits 1

Requirement Select
- MUS2130 - Harmony IV

Actual Credits 2

Requirement Select
- MUS2140 - Aural Techniques IV

Actual Credits 1

Requirement Select
- MUS3020 - Music History & Lit II

Actual Credits 3

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- MUED3620 - Fundamentals of Conducting

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1016 - Accompanying

Actual Credits 1

Requirement Select
- MUS3130 - Form and Analysis

Actual Credits 2

Requirement Select
- MUS3710 - Pedagogy/Literature I

Actual Credits 2

Requirement Select
- Applied Music
  (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Flight Foundations (4 cr. hr.) - select from approved Flight Foundation categories
  (Generic)

Actual Credits 4

Requirement Select
- MUS1005 - Chamber Music

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1016 - Accompanying

Actual Credits 1

Requirement Select
- MUS3720 - Pedagogy/Literature II

Actual Credits 2

Requirement Select
- MUS3950 - Junior Recital

Actual Credits 1

Requirement Select
- Applied Music
  (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1016 - Accompanying

Actual Credits 1

Requirement Select
- MUS4120 - Contemporary Music

Actual Credits 2

Requirement Select
- MUS4710 - Supervised Teaching Exp I

Actual Credits 2

Requirement Select
- Applied Music
  (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Requirement Select
- MUS4250 - Recording Techniques

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1016 - Accompanying

Actual Credits 1

Requirement Select
- MUS4000 - Senior Recital

Actual Credits 1

Requirement Select
- MUS4720 - Supervised Teaching Exp II

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Upper Division Elective (Generic)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 2

MUS-MUPE-THTR - Music, Music Performance Concentration, Musical Theatre Option, B.M.

Program Overview

Program Long Title
Music, Music Performance Concentration, Musical Theatre Option, B.M.

College/School
Fine Arts

Department(s)
Music

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - Music, Music Performance Concentration, Musical Theatre Option, B.M.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	13

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MUS1060 - Chorale
  OR
- MUS1070 - Concert Choir

Actual Credits 1

Requirement Select
- MUS1011 - Beg Class Piano/Mus Mjrs I

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1200 - Private Voice

Actual Credits 2

Requirement Select
- MUS1120 - Harmony I

Actual Credits 3

Requirement Select
- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select
- THEA1016 - Fundamentals of Acting

Actual Credits 2

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- MUS1200 - Private Voice

Actual Credits 2

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MUS1012 - Beg Class Piano/Mus Mjrs II

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- MUS1060 - Chorale
  OR
- MUS1070 - Concert Choir

Actual Credits 1

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- THEA2016 - Intermediate Acting

Actual Credits 2

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- MUS1200 - Private Voice

Actual Credits 2

Requirement Select
- ENGL2130 - Topics in American Literature

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1023 - Intrm Class Piano/Mus Mjrs III

Actual Credits 1

Requirement Select
- MUS3650 - Musical Theatre Movement I

Actual Credits 1

Requirement Select
- MUS2110 - Harmony III

Actual Credits 2

Requirement Select
- MUS2120 - Aural Techniques III

Actual Credits 1

Requirement Select
- MUS3006 - Opera Workshop

Actual Credits 1

Requirement Select
- General elective (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select
- THEA1030 - Intro to Theater

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	17

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- COMM2025 - Fundamentals of Communication

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1024 - Intrm Class Piano/Mus Mjrs IV

Actual Credits 1

Requirement Select
- MUS1200 - Private Voice

Actual Credits 2

Requirement Select
- MUS3660 - Musical Theatre Movement II

Actual Credits 1

Requirement Select
- MUS2130 - Harmony IV

Actual Credits 2

Requirement Select
- MUS2140 - Aural Techniques IV

Actual Credits 1

Requirement Select
- MUS3006 - Opera Workshop

Actual Credits 1

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- MUS3200 - Private Voice

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3670 - Musical Theatre Movement III

Actual Credits 1

Requirement Select
- MUS3006 - Opera Workshop

Actual Credits 1

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- THEA1025 - Stagecraft I

Actual Credits 3

Requirement Select
- MUS1060 - Chorale

  OR
- MUS1070 - Concert Choir

Actual Credits 1

Requirement Select
- THEA3000 - History of the Theatre

Actual Credits 3

Requirement Select
- MUS1115 - Play Production

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3680 - Musical Theatre Movement IV

Actual Credits 1

Requirement Select
- MUS3006 - Opera Workshop

Actual Credits 1

Requirement Select
- MUS3960 - Junior Project

Actual Credits 1

Requirement Select
- MUS3030 - Musical Theatre History

Actual Credits 3

Requirement Select
- MUS1230 - Voice and Diction

Actual Credits 3

Requirement Select
- MUS1060 - Chorale

  OR
- MUS1070 - Concert Choir

Actual Credits 1

Requirement Select
- MUS3200 - Private Voice

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- MUS3200 - Private Voice

Actual Credits 2

Requirement Select
- MUS Upper-division elective (1 cr.) (Generic)

Actual Credits 1

Requirement Select
- Historical Foundations (FFHF)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 4

Requirement Select
- MUS4250 - Recording Techniques

Actual Credits 2

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MUS1115 - Play Production

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- MUS3200 - Private Voice

Actual Credits 2

Requirement Select
- MUS4130 Senior Project (1 cr.) (Generic)

Actual Credits 1

Requirement Select
- MUS4810 - Internship in Musical Theatre

Actual Credits 9

MUS-MUPE-VOC - Music, Music Performance Concentration, Vocal Option, B.M.

Program Overview

Program Long Title
Music, Music Performance Concentration, Vocal Option, B.M.

College/School
Fine Arts

Department(s)
Music

Degree Map

Degree Map Name
Degree Plan - Music, Music Performance Concentration, Vocal Option, B.M.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1120 - Harmony I

Actual Credits 3

Requirement Select
- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select
- MUS1210 - Diction for Singers I

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	17

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- MUS1220 - Diction for Singers II

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1023 - Intrm Class Piano/Mus Mjrs III

Actual Credits 1

Requirement Select
- MUS2110 - Harmony III

Actual Credits 2

Requirement Select
- MUS2120 - Aural Techniques III

Actual Credits 1

Requirement Select
- MUS3006 - Opera Workshop

Actual Credits 1

Requirement Select
- MUS3010 - Music History & Lit I

Actual Credits 3

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1024 - Intrm Class Piano/Mus Mjrs IV

Actual Credits 1

Requirement Select
- MUS2130 - Harmony IV

Actual Credits 2

Requirement Select
- MUS2140 - Aural Techniques IV

Actual Credits 1

Requirement Select
- MUS3020 - Music History & Lit II

Actual Credits 3

Requirement Select
- MUS4510 - Computer App In Music

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Foreign Language (Generic)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3006 - Opera Workshop

Actual Credits 1

Requirement Select
- MUS3130 - Form and Analysis

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	Second Semester	14

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Flight Foundations requirement (4 cr. hr.) - select from approved Flight Foundation categories (Generic)

Actual Credits 4

Requirement Select
- Foreign Language (Generic)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3950 - Junior Recital

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MUED3620 - Fundamentals of Conducting

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3240 - Choral Literature

Actual Credits 2

Requirement Select
- MUS3800 - Vocal Pedagogy & Lit I

Actual Credits 2

Requirement Select
- MUS4120 - Contemporary Music

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- Upper Division Electives (Generic)

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MUED4510 - Special Problems
  OR
- MUED4520 - Special Problems

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3006 - Opera Workshop

Actual Credits 1

Requirement Select
- MUS3810 - Vocal Pedagogy & Lit II

Actual Credits 2

Requirement Select
- MUS4000 - Senior Recital

Actual Credits 1

Requirement Select
- Applied Music
  (Generic)

Actual Credits 2

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

MUS-MUVO - Music, Vocal/General Music, K-12 Licensure Concentration, B.M.

Program Overview

Program Long Title
Music, Vocal/General Music, K-12 Licensure Concentration, B.M.

College/School
Fine Arts

Department(s)
Music

Degree Map

Degree Map Name
Degree Plan - Music, Vocal/General Music, K-12 Licensure Concentration, B.M.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	13

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1120 - Harmony I

Actual Credits 3

Requirement Select
- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select
- MUS1210 - Diction for Singers I

Actual Credits 1

Requirement Select
- Applied Music
  (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- MUS1220 - Diction for Singers II

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Sophomore Year	First Semester	17

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MUS1023 - Intrm Class Piano/Mus Mjrs III

  OR
- MUS1016 - Accompanying

Actual Credits 1

Requirement Select
- MUED1820 - Intro to Music Ed

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS2110 - Harmony III

Actual Credits 2

Requirement Select
- MUS2120 - Aural Techniques III

Actual Credits 1

Requirement Select
- MUS3010 - Music History & Lit I

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- MUED4850 - Workshop in Music Ed

Actual Credits -

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- MUS1016 - Accompanying
  OR
- MUS1024 - Intrm Class Piano/Mus Mjrs IV

Actual Credits 1

Requirement Select
- MUS2210 - Psychology of Music

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS2130 - Harmony IV

Actual Credits 2

Requirement Select
- MUS2140 - Aural Techniques IV

Actual Credits 1

Requirement Select
- MUS3020 - Music History & Lit II

Actual Credits 3

Requirement Select
- Flight Foundation approved course (1 cr.) from Scientific Reasoning OR Financial or Digital Literacy
  (Generic)

Actual Credits 1

Requirement Select
- Applied Music
  (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Requirement Select
- MUED4850 - Workshop in Music Ed

Actual Credits -

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MUED3110 - Mtrl & Meth in Music/K-5

Actual Credits 3

Requirement Select
- MUED3620 - Fundamentals of Conducting

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3130 - Form and Analysis

Actual Credits 2

Requirement Select
- MUS3240 - Choral Literature

Actual Credits 2

Requirement Select
- MUS3800 - Vocal Pedagogy & Lit I

Actual Credits 2

Requirement Select
- Applied Music
  (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Requirement Select
- MUED4850 - Workshop in Music Ed

Actual Credits -

Year	Semester	Actual Credits
Junior Year	Second Semester	18

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MUED3140 - Mtrls/Mthds-Vocal Mus, 6-12

Actual Credits 3

Requirement Select
- MUED3640 - Choral Conducting & Lit

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS4510 - Computer App In Music

Actual Credits 2

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- MUED4850 - Workshop in Music Ed

Actual Credits -

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select
- MUED3811 - Practicum in Music Education

Actual Credits 3

Requirement Select
- MUS4000 - Senior Recital

Actual Credits 1

Requirement Select
- Applied Music (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- MUED4850 - Workshop in Music Ed

Actual Credits 1

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- MUED4881 - Residency II

Actual Credits 10

Requirement Select
- MUED4882 - Professional Seminar II

Actual Credits 2

Requirement Select
- Must submit evidence of current First Aid/CPR training.

  Note: Additional Licensure: Instrumental Music Education The above curriculum is necessary for licensure in Vocal/ General Music. If licensure in Instrumental Music Education is also desired, then the following courses also need to be completed: • MUED 3130 - Materials and Methods in Instrumental Music, Grades 6-12 Credit: 3. • MUED 3830 - Practicum in Music Education II, Instrumental Credit: 1. • MUS 1000 - Private Composition Credit: 1-2. (band/orch. Inst) • MUS 1033 - Marching Band Credit: 0-1. • MUS 1085 - University Orchestra Credit: 0-1. • MUS 1045 - Concert Band Credit: 0-1. • MUED 3230 - Marching Band Techniques Credit: 2. • MUS 1031 - String Techniques I Credit: 1. • MUS 1041 - Woodwind Techniques I Credit: 1. • MUS 1051 - Brass Techniques I Credit: 1. • MUS 1071 - Percussion Techniques I Credit: 1. (Generic)

Actual Credits -

MUSI-BS - Music, B.S.

Program Overview

Program Long Title
Music, B.S.

College/School
Fine Arts

Department(s)
Music

Degree Map

Degree Map Name
Degree Plan - Music, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- MUS Elective (Generic)

Actual Credits 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- MUS1011 - Beg Class Piano/Mus Mjrs I

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1120 - Harmony I

Actual Credits 3

Requirement Select
- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select
- Private Lesson (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- MUS1012 - Beg Class Piano/Mus Mjrs II

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- Private Lesson (Generic)

Actual Credits 1

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- Elective
  (Generic)

Actual Credits 3

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS2120 - Aural Techniques III

Actual Credits 1

Requirement Select
- MUS2110 - Harmony III

Actual Credits 2

Requirement Select
- Private Lesson
  (Generic)

Actual Credits 1

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Requirement Select
- Elective
  (Generic)

Actual Credits 4

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS2130 - Harmony IV

Actual Credits 2

Requirement Select
- MUS2140 - Aural Techniques IV

Actual Credits 1

Requirement Select
- Private Lesson
  (Generic)

Actual Credits 1

Requirement Select
- Flight Foundations flexible electives (4 credits) - select from any approved category
  (Generic)

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- Elective
  (Generic)

Actual Credits 2

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Major Ensemble
  (Generic)

Actual Credits 1

Requirement Select
- MUED3620 - Fundamentals of Conducting

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3010 - Music History & Lit I

Actual Credits 3

Requirement Select
- MUS4250 - Recording Techniques

Actual Credits 2

Requirement Select
- Private Lesson (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- Elective (Generic)

Actual Credits 6

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3020 - Music History & Lit II

Actual Credits 3

Requirement Select
- MUS4510 - Computer App In Music

Actual Credits 2

Requirement Select
- Private Lesson (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select
- Elective (Generic)

Actual Credits 6

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- MUS Elective (Generic)

Actual Credits 2

Requirement Select
- Private Lesson (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select
- Elective (Generic)

Actual Credits 9

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- Major Ensemble (Generic)

Actual Credits 1

Requirement Select
- MUS Elective (Generic)

Actual Credits 2

Requirement Select
- Private Lesson (Generic)

Actual Credits 1

Requirement Select
- MUS4010 - Senior Project

Actual Credits 1

MUSI-BS-MTC - Music (B.S.), Music Theory and Composition Option

Program Overview

Program Long Title
Music (B.S.), Music Theory and Composition Option

College/School
Fine Arts

Department(s)
Music

Degree Map

Degree Map Name
Degree Plan - Music, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- MUS1010 - Class Composition

Actual Credits 1

Requirement Select
- MUS1120 - Harmony I

Actual Credits 3

Requirement Select
- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- Applied Music (1000-level) - 1 credit (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (1 credit) (Generic)

Actual Credits 1

Requirement Select
- MUS1070 - Concert Choir

Actual Credits 1

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- MUS1010 - Class Composition

Actual Credits 1

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- Applied Music (1000-level) - 1 credit (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble (1 credit) (Generic)

Actual Credits 1

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- MUS1000 - Private Composition

Actual Credits 1

Requirement Select
- Major Ensemble (1 credit) (Generic)

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS2110 - Harmony III

Actual Credits 2

Requirement Select
- MUS2120 - Aural Techniques III

Actual Credits 1

Requirement Select
- Applied Music (1000-level) - 1 credit (Generic)

Actual Credits 1

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- MUS1023 - Intrm Class Piano/Mus Mjrs III

Actual Credits 1

Requirement Select
- MUED3620 - Fundamentals of Conducting

Actual Credits 1

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- Major Ensemble (1 credit) (Generic)

Actual Credits 1

Requirement Select
- MUS1000 - Private Composition

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS2130 - Harmony IV

Actual Credits 2

Requirement Select
- MUS2140 - Aural Techniques IV

Actual Credits 1

Requirement Select
- Applied Music (1000-level) - 1 credit
  (Generic)

Actual Credits 1

Requirement Select
- Flight Foundation Requirements (4 credit hours) - select from approved Flight Foundation courses
  (Generic)

Actual Credits 4

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- MUS1024 - Intrm Class Piano/Mus Mjrs IV

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- COMM2025 - Fundamentals of Communication
  OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Major Ensemble (1 credit)
  (Generic)

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3010 - Music History & Lit I

Actual Credits 3

Requirement Select
- MUS3000 - Private Composition

Actual Credits 1

Requirement Select
- Applied Music (3000 -level) - 1 credit
  (Generic)

Actual Credits 1

Requirement Select
- MUS3130 - Form and Analysis

Actual Credits 2

Requirement Select
- MUS4250 - Recording Techniques

Actual Credits 2

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select
- Electives (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Major Ensemble (1 credit)
  (Generic)

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS3020 - Music History & Lit II

Actual Credits 3

Requirement Select
- MUS4510 - Computer App In Music

Actual Credits 2

Requirement Select
- Applied Music (3000-level) - 1 credit (Generic)

Actual Credits 1

Requirement Select
- MUS3000 - Private Composition

Actual Credits 1

Requirement Select
- MUS3210 - Instrumentation

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Electives (5 credits) (Generic)

Actual Credits 5

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- Major Ensemble (1 credit) (Generic)

Actual Credits 1

Requirement Select
- Applied Music (3000-level) - 1 credit (Generic)

Actual Credits 1

Requirement Select
- MUS3000 - Private Composition

Actual Credits 1

Requirement Select
- MUS3140 - Counterpoint

Actual Credits 3

Requirement Select
- MUS3220 - Jazz Composition/Arranging I

Actual Credits 2

Requirement Select
- MUS4120 - Contemporary Music

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select
- Electives (7 credits) (Generic)

Actual Credits 7

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- Major Ensemble (1 credit) (Generic)

Actual Credits 1

Requirement Select
- Applied Music (3000-level) - 1 credit (Generic)

Actual Credits 1

Requirement Select
- MUS4010 - Senior Project

Actual Credits 1

Requirement Select
- MUS3000 - Private Composition

Actual Credits 1

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

MUSI-LAET - Music (B.S.), Live Audio Engineering Technology Concentration

Program Overview

Program Long Title
Music (B.S.), Live Audio Engineering Technology Concentration

College/School
Fine Arts

Department(s)
Music

Requirements

No Requirements

Degree Map

Degree Map Name
Live Audio Engineering Technology (Track I)
Total Degree Map Credits
117 - 120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Year 1	Fall	12 - 15

Requirement Select
- MUS1011 - Beg Class Piano/Mus Mjrs I

Actual Credits 1

Requirement Select
- MUS1120 - Harmony I

Actual Credits 3

Requirement Select
- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUSA2010 - Live Audio Intro A

Actual Credits 2

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1710 - Pre-Calculus Algebra

Actual Credits 0 - 3

Requirement Select
- Music - Applied (1000-level) - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- MUS - Major Ensemble - 1 cr. (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Year 1	Spring	15

Requirement Select
- MUS1012 - Beg Class Piano/Mus Mjrs II

Actual Credits 1

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- MUSA2020 - Live Audio Intro B

Actual Credits 2

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MUS - Applied (1000-level) - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- Major Ensemble - 1 cr. (Generic)

Actual Credits 1

Year	Semester	Actual Credits

Year	Fall	14

Requirement Select
- MUS3110 - Harmony III for Live Audio

Actual Credits 2

Requirement Select
- MUS3115 - Aural Techniques III for Live Audio

Actual Credits 1

Requirement Select
- MUSA3010 - Live Audio Intmed A

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- MUS - Applied (1000-level) - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- MUS Major Ensemble - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Spring	15

Requirement Select
- MUS3120 - Harmony IV for Live Audio

Actual Credits 2

Requirement Select
- MUS3125 - Aural Techniques IV for Live Audio

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUSA3020 - Live Audio Intmed B

Actual Credits 2

Requirement Select
- PHYS2010 - Algebra-based Physics I

Actual Credits 4

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- MUS - Applied (1000-level) - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- MUS Major Ensemble - 1 cr. (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Year 3	Fall	16

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- CHEM1010 - Introductory Chemistry I

Actual Credits 4

Requirement Select
- COMM2025 - Fundamentals of Communication

OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- MUSA4010 - Live Audio Adv. A

Actual Credits 3

Requirement Select
- ECE2140 - Intro to Digital Systems

Actual Credits 4

Requirement Select
- MUS - Applied (3000-level) - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- MUS3033 - Marching Band for Live Audio

Actual Credits 1

Year	Semester	Actual Credits
Year 3	Spring	15

Requirement Select
- MUS3020 - Music History & Lit II

Actual Credits 3

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUSA4020 - Live Audio Adv. B

Actual Credits 3

Requirement Select
- ECE3140 - Digital System Design

Actual Credits 3

Requirement Select
- MUS - Applied (3000-level) - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- MUS Major Ensemble - 1 cr. (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Year 4	Fall	16

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- ECE2050 - Circuits and Electronics I

Actual Credits 4

Requirement Select
- MUSA4030 - Live Audio Pro A

Actual Credits 3

Year	Semester	Actual Credits
Year 4	Spring	14

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MUSA4040 - Live Audio Pro B

Actual Credits 3

Requirement Select
- ECE3130 - Microcomputer Systems

Actual Credits 4

Requirement Select
- MUS4010 - Senior Project

Actual Credits 1

Degree Map Name
Live Audio Engineering Technology (Track II)
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative

Live Audio Concentration Curriculum Degree Map Track 2

Year	Semester	Actual Credits
Year 1	Fall	16

Requirement Select
- MUS1011 - Beg Class Piano/Mus Mjrs I

Actual Credits 1

Requirement Select
- MUS1120 - Harmony I

Actual Credits 3

Requirement Select
- MUS1130 - Aural Techniques I

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUSA2010 - Live Audio Intro A

Actual Credits 2

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- MUS - Applied (1000-level) - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- MUS Major Ensemble - 1 cr. (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Year 1	Spring	16

Requirement Select
- MUS1012 - Beg Class Piano/Mus Mjrs II

Actual Credits 1

Requirement Select
- MUS1140 - Harmony II

Actual Credits 3

Requirement Select
- MUS1150 - Aural Techniques II

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MUSA2020 - Live Audio Intro B

Actual Credits 2

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- MUS - Applied (1000-level) - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- MUS Major Ensemble - 1 cr. (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Year 2	Fall	13

Requirement Select
- MUS3110 - Harmony III for Live Audio

Actual Credits 2

Requirement Select
- MUS3115 - Aural Techniques III for Live Audio

Actual Credits 1

Requirement Select
- MUSA3010 - Live Audio Intmed A

Actual Credits 2

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- MUS - Applied (1000-level) - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- MUS Major Ensemble - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Spring	17

Requirement Select
- MUS3120 - Harmony IV for Live Audio

Actual Credits 2

Requirement Select
- MUS3125 - Aural Techniques IV for Live Audio

Actual Credits 1

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUSA3020 - Live Audio Intmed B

Actual Credits 2

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- ECE2140 - Intro to Digital Systems

Actual Credits 4

Requirement Select
- MUS1030 - Music Appreciation

Actual Credits 3

Requirement Select
- MUS - Applied (1000-level) - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- MUS Major Ensemble - 1 cr. (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Year 3	Fall	16

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- CHEM1010 - Introductory Chemistry I

Actual Credits 4

Requirement Select
- COMM2025 - Fundamentals of Communication

OR
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- MUSA4010 - Live Audio Adv. A

Actual Credits 3

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- MUS - Applied (3000-level) - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- MUS3033 - Marching Band for Live Audio

Actual Credits 1

Year	Semester	Actual Credits
Year 3	Spring	16

Requirement Select
- MUS3020 - Music History & Lit II

Actual Credits 3

Requirement Select
- PHYS2010 - Algebra-based Physics I

Actual Credits 4

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- MUSA4020 - Live Audio Adv. B

Actual Credits 3

Requirement Select
- ECE2050 - Circuits and Electronics I

Actual Credits 4

Requirement Select
- MUS - Applied (3000-level) - 1 cr. (Generic)

Actual Credits 1

Requirement Select
- MUS Major Ensemble - 1 cr. (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Year 4	Fall	13

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- ECE3130 - Microcomputer Systems

Actual Credits 4

Requirement Select
- MUSA4030 - Live Audio Pro A

Actual Credits 3

Year	Semester	Actual Credits
Year 4	Spring	13

Requirement Select
- MUS1013 - Recital Class

Actual Credits -

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- MUSA4040 - Live Audio Pro B

Actual Credits 3

Requirement Select
- ECE4140 - Embedded System Design

Actual Credits 3

Requirement Select
- MUS4010 - Senior Project

Actual Credits 1

Courses

Course Information

Course Title
Intro to Music Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
1820

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Prerequisites: MUS 1140 and MUS 1150. Introduction to the music education profession with emphasis on observing a variety of K-12 public school teaching/conducting settings. Music Education majors only. A minimum grade of B is required to meet degree requirements.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1140 and MUS 1150.

Course Information

Course Title
Mtrl & Meth in Music/K-5

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3110

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisites: Full Admission to Teacher Education Program and MUS 1024. This course will explore materials, methods and techniques used in teaching general music to children in grades Kindergarten through five. Public school field experience required.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program and MUS 1024.

Course Information

Course Title
Mtrls/Mthds-Instr Mus, 6-12

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3130

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisite: Full Admission to Teacher Education Program and MUS 1024. Intended for the instrumental music education major, this course will explore a variety of materials, methods and techniques which can be used to build and maintain successful school band and orchestra programs. Public school field experience required.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program and MUS 1024.

Course Information

Course Title
Mtrls/Mthds-Vocal Mus, 6-12

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3140

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisite:Full Admission to Teacher Education Program, and MUS 1024. Intended for the vocal/general music education major, this course is directed towards developing a working knowledge of teaching strategies necessary for successful choral/general music programs. Public school field experience required.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program and MUS 1024.

Course Information

Course Title
Marching Band Techniques

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3230

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisites: Full Admission to the Teacher Education Program, MUS 1024, 2130, 2140, and Harmony/AT Exam; MUED 1820 with a grade of B. Group and individual drill maneuvers; music selection and arranging; and designing and charting for effective outdoor performances.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program, MUS 1024, MUS 2130, MUS 2140, and Harmony/AT Exam; MUED 1820 with a grade of B.

Course Information

Course Title
Fundamentals of Conducting

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3620

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Prerequisites: MUS 1024, 2130, 2140, and Harmony/AT Exam, and pass Praxis I Exam; MUED 1820 with a grade of B. Technique, practice and principles of conducting. Development of effective hand and baton techniques.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1024 , MUS 2130, MUS 2140, and Harmony/AT Exam; MUED 1820 with a grade of B.

Course Information

Course Title
Instrumental Conducting & Lit

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3630

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MUED 3620. Technique, practice, and principles of instrumental conducting in performance through a study of the standard repertoire.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUED 3620.

Course Information

Course Title
Choral Conducting & Lit

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3640

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MUED 3620. Technique, practice, and principles of choral conducting in performance through a study of the standard repertoire.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUED 3620.

Course Information

Course Title
String Pedagogy/Literature I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3735

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Techniques and methods used in developing a public school string education program.

College/School
Fine Arts

Course Information

Course Title
String Pedagogy & Lit II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3740

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Course Description
Survey of string literature from the 17th Century to the present, which is appropriate to the development of the public school string program.

College/School
Fine Arts

Course Information

Course Title
Practicum in Music Ed I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3810

Credit Hours

Credit Hours:
1

Other Hours

Min:
2

Course Description
Prerequisites: Full Admission to the Teacher Education Program, MUS 1024, 2130, 2140, and Harmony/AT Exam; MUED 1820 with a grade of B. Supervised work experiences in the public schools stressing the translation of theory into practice.

College/School
Fine Arts

Requisites and Restrictions

Corequisite:
MUS 1024, MUS 2130, MUS 2140, and Harmony/AT Exam; MUED 1820 with a grade of B; and Full admission to the Teacher Education Program.

Course Information

Course Title
Practicum in Music Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3811

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course is designed to give music education candidates practicum experience at several hand-picked schools. The instructor of record will coordinate 3 different practicum experiences (K-5, middle school, and high school) during the fall semester of their senior year. This course gives students supervised work experiences in public schools, translating theories they learned in music education courses into practical application. A minimum grade of B is required to meet degree requirements. Admission to Teacher Education required.

College/School
Fine Arts

Syllabus
MUED 3811 Syllabus.docx

Requisites and Restrictions

Prerequisite:
Admission to Teacher Education required.

Course Information

Course Title
Pract In Mus Ed II, Instrmntl

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3830

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Full Admission to the Teacher Education Program, MUS 1024, 2130, 2140, and Harmony/AT Exam; MUED 1820 with a grade of B; and MUED 3620. Corequisite: MUED 3130. Instrumental music education majors will have the opportunity to translate theory into practice through guided work experiences in the public schools.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program, MUS 1024, MUS 2130, MUS 2140, MUED 3620, and Harmony/AT Exam; MUED 1820 with a grade of B.

Corequisite:
MUED 3130.

Course Information

Course Title
Pract In Mus Ed II, Vocal

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
3840

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisites: Full Admission to the Teacher Education Program, MUS 1024, 2130, 2140, Harmony/AT Exam; MUED 1820 with a grade of B; MUED 3620. Corequisite: MUED 3140. Intended for the vocal/general music education major, this course provides the student with practical teaching experience in secondary choral/general music classes.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program, MUS 1024, MUS 2130, MUS 2140, MUED 3620, and Harmony/AT Exam; MUED 1820 with a grade of B.

Corequisite:
MUED 3140.

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
4510

Credit Hours

Credit Hours:
1

Credit Hours:
2

Lab Hours

Min:
1

Max:
2

Course Description
Prerequisite: Consent of appropriate area coordinator. Work in a field approved by the coordinator.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Consent of appropriate area coordinator.

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
4520

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
OR

Course Description
Prerequisite: Consent of appropriate area coordinator. Work in a field approved by the coordinator.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Consent of appropriate area coordinator.

Course Information

Course Title
Workshop in Music Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
4850

Credit Hours

Credit Hours:
0

Credit Hours:
3

Other Hours

Min:
0

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Number Of Repeats:
6

Course Description
Laboratory approach providing opportunities for experienced music education personnel to study in depth music education problems. A minimum grade of B is required to meet degree requirements.

College/School
Fine Arts

Requisites and Restrictions

Note:
A minimum grade of B is required to meet degree requirements.

Course Information

Course Title
Student Teaching in Music I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
4870

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: Full Admission to the Teacher Education Program. Corequisites: MUED 4880 and 4890. Activities directly related to teaching performance; planning and presenting lessons, directing study, and managing the classroom and rehearsal. A grade of B or better is required to pass the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
MUED 4880 and MUED 4890.

Course Information

Course Title
Residency I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
4871

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: Full Admission to the Teacher Education Program. Corequisite: MUED 4872. Performance based clinical experience in authentic settings involving planning appropriate instruction based on student's needs, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice.A grade of B is required to meet degree requirements.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
MUED 4872.

Course Information

Course Title
Professional Seminar I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
4872

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: Full Admission to the Teacher Education Program. Corequisite: MUED 4871. Seminar for residency I candidates to develop curriculum, identify effective instructional strategies, and implement appropriate assessment methods to support and meet the needs of all learners. A minimum grade of B is required to meet degree requirements.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
MUED 4871.

Course Information

Course Title
Student Teaching in Music II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
4880

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Course Description
Prerequisite: Full Admission to the Teacher Education Program. Corequisite: MUED 4870 and MUED 4890. Study of personal-professional characteristics, human relations skills, and educational philosophy in teaching.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
MUED 4870 and MUED 4890.

Course Information

Course Title
Residency II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
4881

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Repeatable for Credit:
No

Course Description
Prerequisite: Full Admission to the Teacher Education Program. Corequisite: MUED 4882. Performance based full time clinical experience in authentic settings involving planning appropriate instruction based on student's needs, demonstrating effective instructional strategies, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
MUED 4882.

Course Information

Course Title
Professional Seminar II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
4882

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Full Admission to the Teacher Education Program. Corequisite: MUED 4881. Seminar for residency II candidates supporting professional development in areas of planning, assessment, instruction, classroom management, communication and reflection. A minimum grade of B is required to meet degree requirements.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
MUED 4881.

Course Information

Course Title
Seminar: Education & Society

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUED

Course Number
4890

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Full Admission to the Teacher Education Program. Corequisite: MUED 4870 and MUED 4890. Seminar on issues related to the interrelationships among school, culture, and society; a historical, philosophical, and sociological analysis.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Corequisite:
MUED 4870 and MUED 4880.

Course Information

Course Title
Private Composition

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1000

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
2

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Horn Choir

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1001

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
Yes

Course Description
Preparation of chamber music scores for instruments of the horn family.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Trombone Choir

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1002

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
Yes

Course Description
Preparation of chamber music scores for instruments of the trombone family.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Flute Choir

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1003

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
Yes

Course Description
Preparation of chamber music scores for instruments of the flute family.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Clarinet Choir

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1004

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
Yes

Course Description
Preparation for concert performance of chamber music scores for instruments of the clarinet family.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Chamber Music

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1005

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Preparation for concert performance of vocal and instrumental chamber music scores.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Tuba Ensemble

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1007

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
Yes

Course Description
Preparation for concert performance of chamber music scores for instruments of tuba family.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Trumpet Ensemble

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1009

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
Yes

Number Of Repeats:
12

Course Description
Preparation for concert performance of chamber music scores for instruments of the trumpet family. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Class Composition

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1010

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
An introduction course in music composition. Students will arrange existing works and be tasked with creating original compositions. All music majors must achieve a grade of 'C' in each music course.

College/School
Fine Arts

Course Information

Course Title
Beg Class Piano/Mus Mjrs I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1011

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Course Description
Designed to give a functional knowledge of the piano.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Beg Class Piano/Mus Mjrs II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1012

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Course Description
Designed to give a functional knowledge of the piano.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Recital Class

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1013

Credit Hours

Credit Hours:
0

Other Hours

Min:
0

Repeatable for Credit:
Yes

Number Of Repeats:
99

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Percussion Ensemble

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1015

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
Yes

Course Description
Preparation for concert performance of music written or transcribed for percussion ensemble.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Accompanying

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1016

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Instruction and performance in accompanying for piano majors.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Double Reed Ensemble

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1017

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Preparation for concert performance of chamber music scores for instruments of the double-reed family, and study of reed making techniques. All must majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeated the course.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Saxophone Ensemble

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1018

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Preparation of chamber music scores for instruments of the saxophone family. All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Class Voice Techniques I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1021

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Course Description
Students will learn rudiments of posture, breathing, tone production, song interpretation, and stage deportment in order to effectively work with students in a choir.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Class Voice Techniques II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1022

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Course Description
Students will learn rudiments of posture, breathing, tone production, song interpretation, and stage deportment in order to effectively work with the students in a choir.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Intrm Class Piano/Mus Mjrs III

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1023

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisite: MUS 1012 or previous piano experience. Designed to prepare music students with previous keyboard experience for the piano proficiency examination.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1012 or previous piano experience.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Intrm Class Piano/Mus Mjrs IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1024

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisite: MUS 1023 or previous piano experience. Designed to prepare music students with previous keyboard experience for the piano proficiency examination.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1023 or previous piano experience.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Chamber Winds

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1025

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lab Hours

Min:
2

Max:
4

Repeatable for Credit:
Yes

Number Of Repeats:
6

Number Of Credits:
4

Course Description
Prerequisite: Successful audition. A select ensemble of wind and percussion instrumentalists.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Successful audition.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Varsity Pep Band

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1026

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lab Hours

Min:
2

Max:
4

Repeatable for Credit:
Yes

Course Description
Public performance for varsity basketball games.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Keybrd Skills/Mus Therapy I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1027

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisite: Music Therapy major; passed ALL portions of piano proficiency. Keyboard skills and repertoire necessary for the practice of music therapy, including: accompaniment, harmonization, improvisation, performance of selected repertoire.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Music Therapy major; passed ALL portions of piano proficiency.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Keybrd Skills/Mus Therapy II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1028

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisite: Music Therapy major; passed ALL portions of piano proficiency; MUS 1027 or consent of instructor. Continuation of MUS 1027. Keyboard skills and repertoire necessary for the practice of music therapy, including: accompaniment, harmonization, improvisation, performance of selected repertoire. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Music Therapy major; passed ALL portions of piano proficiency; MUS 1027 or consent of instructor.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Oratorio Class

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1029

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
A survey of the major representative oratorio literature, which features sections and arias for the solo voice and ensembles. Periods of study will include the Baroque to the 20th Century.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Music Appreciation

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Survey of various styles and forms of music with recordings used for class listening.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
String Techniques I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1031

Credit Hours

Credit Hours:
1

Other Hours

Min:
2

Course Description
Each student will learn rudiments of four string instruments: Violin, Viola, Cello, and Double Bass. They will also learn how to teach each instrument in a class setting.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
String Techniques II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1032

Credit Hours

Credit Hours:
1

Other Hours

Min:
2

Course Description
Each student will learn rudiments of four string instruments: Violin, Viola, Cello, and Double Bass. They will also learn how to teach each instrument in a class setting.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Marching Band

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1033

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lab Hours

Min:
2

Max:
6

Repeatable for Credit:
Yes

Course Description
Preparation and performance for all home football games and other campus and community events.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
American Popular Music

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1034

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Survey of various forms and styles of American popular music from its origins in African-American blues through rock and roll to the present.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Beginning Class Guitar

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1035

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Accompanying group singing. Emphasis on chords and strumming techniques.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Intermediate Class Guitar

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1036

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisite: MUS 1035 or consent of instructor. Additional skills and techniques for students already possessing a basic command of the instrument.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1035 or consent of instructor.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Symphony Band

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1040

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lab Hours

Min:
2

Max:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: Successful audition. A wind band comprised of 60-80 instrumentalists.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Successful audition.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Woodwind Techniques I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1041

Credit Hours

Credit Hours:
1

Other Hours

Min:
2

Course Description
Each student will learn introductory through advanced teaching skills and rudiments of the five woodwind instruments: Flute, Oboe, Clarinet, Saxophone, Bassoon.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Woodwind Techniques II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1042

Credit Hours

Credit Hours:
1

Other Hours

Min:
2

Course Description
Each student will learn introductory through advanced teaching skills and rudiments of the five woodwind instruments: Flute, Oboe, Clarinet, Saxophone, Bassoon.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Concert Band

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1045

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lab Hours

Min:
2

Max:
5

Repeatable for Credit:
Yes

Course Description
Prerequisite: Successful audition. A wind and percussion band; open to all students.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Successful audition.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Women's Chorus

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1050

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Successful audition. A choral performance ensemble for female voices, open to all University students.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Successful audition.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Brass Techniques I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1051

Credit Hours

Credit Hours:
1

Other Hours

Min:
2

Course Description
Students in this course will learn introductory through advanced pedagogical skills useful to teaching brass instruments in primary and secondary school settings.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Brass Techniques II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1052

Credit Hours

Credit Hours:
1

Other Hours

Min:
2

Course Description
Students in this course will learn introductory through advanced pedagogical skills useful to teaching brass instruments in primary and secondary school settings.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Men's Chorus

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1054

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Successful audition. A choral performance ensemble for male voices, open to all University students.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Successful audition.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Chorale

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1060

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lab Hours

Min:
5

Repeatable for Credit:
Yes

Course Description
Prerequisite: Successful audition. A select choral ensemble.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Madrigal Singers

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1062

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Successful audition. A select chamber ensemble open, by audition, to all university students. The ensemble will consist of 16 to 20 singers who will primarily perform music from the Renaissance period and will perform one "Madrigal Feaste" per school year.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Successful audition.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Mastersingers

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1065

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lab Hours

Min:
2

Max:
4

Repeatable for Credit:
Yes

Course Description
A choral ensemble open to students and members of the community for the purpose of performing major choral works.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Concert Choir

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1070

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lab Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
A large choral ensemble open to all university students.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Percussion Techniques I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1071

Credit Hours

Credit Hours:
1

Other Hours

Min:
2

Course Description
Student in this course will learn introductory through advanced pedagogical skills useful to teaching percussion instruments in primary and secondary school settings.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Percussion Techniques II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1072

Credit Hours

Credit Hours:
1

Other Hours

Min:
2

Course Description
Student in this course will learn introductory through advanced pedagogical skills useful to teaching percussion instruments in primary and secondary school settings.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Percussion Techniques

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1073

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Course Description
Rhythm and percussion instruments for Music Therapy majors.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Music to Meet Except Ed Needs

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1074

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Course Description
Music leadership skills for the special education setting. Developing music activities to meet the abilities and needs of students with disabilities.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Afro-Caribbean Ensemble

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1075

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Students will explore and learn about the Afro-Caribbean culture through a hands-on study of traditional Afro-Caribbean instruments, imported from Trinidad and Tobago, and other authentic resources. This hands-on pedagogical approach will enhance the students' educational interest, understanding, and appreciation for the Afro-Caribbean diaspora, while increasing their involvement with the campus and community. As part of the students' assessment, members of this ensemble will be expected to participate in public concerts, educational workshops, and assembly presentations. These service opportunities will provide students with an enriched educational experience and promote personal growth as they become community ambassadors for cultural diversity.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Beginning West African Drum

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1076

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. The performance of drum rhythms and songs from Ghana and surrounding countries.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Adv West African Drum

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1077

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: MUS 1076. A continuation of the performance of drum rhythms and songs from Ghana and surrounding countries.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1076.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Begin West African Dance

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1078

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Performance of dances and songs from Ghana and surrounding countries.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Adv West African Dance

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1079

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: MUS 1078. A continuation of the performances of dances and songs from Ghana and surrounding countries.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1078.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Bryan Symphony Orchestra

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1080

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lab Hours

Min:
2

Max:
4

Repeatable for Credit:
Yes

Course Description
Prerequisite: Successful audition. A symphony orchestra including students, faculty and regional musicians.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Successful audition.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Improvisation I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1081

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisite: MUS 1140 and MUS 1150 with a grade of C or better. Development of improvisation skills in varied musical styles. Emphasis on performance and aural perception.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1140 and MUS 1150 with a grade of C or better.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Improvisation II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1082

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Course Description
Prerequisite: MUS 1081 with a grade of C or better. Development of improvisation skills in varied musical styles. Emphasis on performance and aural perception.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1081 with a grade of C or better.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
University Orchestra

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1085

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lab Hours

Min:
2

Max:
4

Repeatable for Credit:
Yes

Course Description
An orchestra open to all university students, exploring repertoire for chamber and full symphony orchestra.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Jazz Ensemble

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1090

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lab Hours

Min:
2

Max:
4

Repeatable for Credit:
Yes

Course Description
Prerequisite: Successful audition. Organized instrumental groups rehearsing and performing music in the jazz and "Pop" idiom.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Successful audition.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Jazz Lab Band

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1091

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lab Hours

Min:
2

Max:
4

Repeatable for Credit:
Yes

Course Description
An instrumental experience in the jazz/pop idiom; open to all students. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Private Piano

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1100

Credit Hours

Credit Hours:
0

Credit Hours:
2

Other Hours

Min:
0

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Music Fundamentals

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A basic course for general students, including the study of music construction, notation, literature, and techniques for listening.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Functional Performance Band

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1111

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Max:
5

Repeatable for Credit:
Yes

Course Description
Corequisite: MUS 1020, 1026, 1033, 1040 or 1045. Techniques involved in preparation for public band performance.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Corequisite:
MUS 1025, MUS 1026, MUS 1033, MUS 1040 or MUS 1045.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Functional Performance Choir

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1112

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Max:
5

Repeatable for Credit:
Yes

Course Description
Corequisite: MUS 1060, 1065 or 1070. Techniques involved in preparation for public choral performance.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Corequisite:
MUS 1060, MUS 1065 or MUS 1070.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Functional Perfrmnce Orchestra

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1113

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Max:
3

Course Description
Corequisite: MUS 1080 or 1085. Techniques involved in preparation for public orchestral performance.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Corequisite:
MUS 1080 or MUS 1085.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Functional Performance Jazz

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1114

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Corequisite: MUS 1090 or 1091. Techniques involved in preparation for public jazz performance.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Corequisite:
MUS 1090 or MUS 1091.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Play Production

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1115

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Practical experience on any phase of a Theatre department production from playwriting to performance or committee or crew work. All music majors must achieve a grade of 'C' in each music course. Course may be repeated for credit.

College/School
Fine Arts

Course Information

Course Title
Harmony I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Passing score on Entrance Exam. Scales, intervals, triads, rhythms, chord functions, part-writing, inversions, cadences, non-harmonic tones, and musical analysis.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Passing score on Entrance Exam.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Aural Techniques I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1130

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Course Description
Corequisite: MUS 1120. Aural perception, singing, and keyboard performance of materials in MUS 1120.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Corequisite:
MUS 1120.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Harmony II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1140

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MUS 1120. Corequisite: MUS 1150. Study of diatonic harmony through part-writing, analysis and stylistic composition.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1120.

Corequisite:
MUS 1150.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Aural Techniques II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1150

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
Prerequisite: MUS 1130 with a grade of C or better. Corequisite: MUS 1140. Aural perception, singing, and keyboard performance of materials in MUS 1140. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1130 with a grade of C or better.

Corequisite:
MUS 1140.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Student Recital

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1195

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Consent of studio instructor. Corequisite: Enrollment in private instruction in pertinent studio. Open to any non-curricular solo recital performance. May be repeated for credit. Recital fee applies.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Voice

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1200

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Diction for Singers I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1210

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Language diction for singers, including Latin and Italian, stressing similarities and differences of sung language.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Diction for Singers II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1220

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Course Description
Prerequisite: MUS 1210. Language diction for singers, including English, German, and French, stressing similarities and differences of sung language.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1210.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Voice and Diction

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Interactive course covering basic elements of voice production and articulation. All music majors must achieve a grade of 'C' in each music course.

College/School
Fine Arts

Course Information

Course Title
Private Violin

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1300

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Violoncello

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1301

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private String Bass

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1302

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Viola

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1303

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Harp

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1350

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Repeatable for Credit:
Yes

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Private Flute/ Piccolo

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1400

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Oboe/English Horn

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1401

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Clarinet

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1402

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Bassoon

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1403

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Trumpet

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1500

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Saxophone

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1404

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Horn

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1501

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Trombone

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1502

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Tuba/Euphonium

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1503

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Organ

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1600

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Repeatable for Credit:
Yes

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Private Percussion

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1700

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Harpsichord

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1800

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
OR

Repeatable for Credit:
Yes

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Private Guitar

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
1900

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
World Music

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
2030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to folk/traditional, classical and pop musical styles from selected areas in Africa, Asia, Europe, and the Americas.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

MUS 2080: Digital Creativity: Making Music with Digital Tools

Course Information

Course Title
Digital Creativity

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
2080

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Making Music with Digital Tools introduces students to the process of music creation through widely accessible, modern technologies while developing foundational digital literacy skills. Students learn the fundamentals of songwriting in the digital age, including beat construction, chord progressions, and melodic development, using free or widely available music-production tools. No prior musical experience is required.

College/School
Fine Arts

Syllabus
Digital Creativity- Making Music with Digital Tools.pdf

Course Information

Course Title
Harmony III

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
2110

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MUS 1140 with a grade of C or better. Chromaticism, altered chords, secondary functions, augmented sixth chords, and musical analysis.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1140 with a grade of C or better.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Aural Techniques III

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
2120

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite: MUS 1150. Corequisite: MUS 2110. Aural perception, singing, and keyboard performance of materials in MUS 2110. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1150.

Corequisite:
MUS 2110.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Harmony IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
2130

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MUS 2110 with a grade of C or better. Advanced modulation and part-writing procedures. Survey of 20th Century harmonic techniques, original composition, and musical analysis.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 2110 with a grade of C or better.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Aural Techniques IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
2140

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Course Description
Prerequisite: MUS 2120 with a grade of C or better. Corequisite: MUS 2130. Aural perception, singing, and keyboard performance of materials in MUS 2130.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 2120 with a grade of C or better.

Corequisite:
MUS 2130.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Psychology of Music

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
2210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course provides an introduction to the music learning and teaching from a psychological perspective. Students will gain knowledge and skills in music psychology as musicians themselves, as well as music educators in the contexts of K-12 classrooms and applied studio teaching. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Syllabus
Psychology of Music Syllabus.docx

Course Information

Course Title
Private Composition

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3000

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Opera Workshop

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3006

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Successful audition. Techniques of auditioning, staging, rehearsal, and production of musical comedy and opera.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Successful audition.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Music History & Lit I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MUS 1030, 1140, and 1150 with a grade of C or better. Western music of the Ancient, Medieval, Renaissance, Baroque, and Classical periods. Materials basic to research on musical topics.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1030, MUS 1140, and MUS 1150 with a grade of C or better.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Music History & Lit II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MUS 1030, 1140, 1150 and 3010 with a grade of C or better. Western music of the Romantic period and 20th century. Expansion of research experience on a variety of musical topics.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1030, MUS 1140, MUS 1150 and MUS 3010.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Musical Theatre History

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A study of the history and repertoire of musical theatre from its origins to the present. All music majors must achieve a grade of "C" in each music course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course.

Course Information

Course Title
Marching Band for Live Audio

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3033

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lab Hours

Min:
2

Max:
6

Repeatable for Credit:
No

Course Description
Prepare and execute live audio needs for all home football games. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Syllabus
MUS 3033 Marching Band Live Audio.docx

Course Information

Course Title
Private Piano

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3100

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Harmony III for Live Audio

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3110

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisite: MUS 1140 with a grade of C or better. Corequisite: MUS 3115. Chromaticism, altered chords, secondary functions, augmented sixth chords, and musical analysis. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Syllabus
MUS 3110 Harmony III Live Audio.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: MUS 1140 with a grade of C or better.

Corequisite:
Corequisite: MUS 3115.

Aural Techniques III for Live Audio

Course Information

Course Title
Aural Tech. III Live Audio

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3115

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
Prerequisite: MUS 1150. Corequisite: MUS 3110. Aural perception, singing, and keyboard performance of materials in MUS 3110. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Syllabus
MUS 3115 AT III Live Audio.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: MUS 1150.

Corequisite:
Corequisite: MUS 3110.

Harmony IV for Live Audio

Course Information

Course Title
Harmony IV for Live Audio

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3120

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
No

Course Description
Prerequisite: MUS 3110 with a grade of C or better. Corequisite: MUS 3125. Advanced modulation and part-writing procedures. Survey of 20th Century harmonic techniques, original composition, and musical analysis. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Syllabus
MUS 3120 Harmony IV Live Audio.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: MUS 3110 with a grade of C or better.

Corequisite:
Corequisite: MUS 3125.

Aural Techniques IV for Live Audio

Course Information

Course Title
Aural Tech. IV Live Audio

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3125

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
Prerequisite: MUS 3115 with a grade of C or better. Corequisite: MUS 3120. Aural perception, singing, and keyboard performance of materials in MUS 3120. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Syllabus
MUS 3125 AT IV Live Audio.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: MUS 3115 with a grade of C or better.

Corequisite:
Corequisite: MUS 3120.

Course Information

Course Title
Form and Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3130

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisites: MUS 1024, MUS 2130 with a grade of C or better, and Harmony/AT Exam. A comprehensive study of the structure of music from all historic periods.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1024, MUS 2130 with a grade of C or better and Harmony/AT Exam.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Counterpoint

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3140

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MUS 3130 with a grade of C or better. The study of 18th century/counterpoint: analysis, composition. The relationship between Baroque and 20th century contrapuntal techniques.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 3130 with a grade of C or better.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Private Voice

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3200

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Instrumentation

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3210

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: MUS 1024, MUS 2130, MUS 2140, MUS 4510 and MUED3620 with a grade of C or better, and Harmony/AT Exam. Ranges, timbre mixtures, and transpositions for all music media, as related to standard scoring techniques. Ensemble scores are constructed.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1024, MUS 2130, MUS 2140, MUS 4510, MUED 3620 with a grade of C or better and Harmony/AT Exam.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Jazz Composition/Arranging I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3220

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: MUS 1024, MUS 2130 and 2140 with a grade of C or better, and Harmony/AT Exam. Original compositions and arrangements in jazz styles for large and small ensembles. Student work will be performed and recorded.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1024, MUS 2130, MUS 2140 with a grade of C or better and Harmony/AT Exam.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Jazz Composition/Arranging II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3230

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: MUS 3220 with a grade of C or better. Original compositions and arrangements in jazz styles for large and small ensembles. Student work will be performed and recorded.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 3220 with a grade of C or better.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Choral Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3240

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: MUS 1024, MUS 2130 and MUS 2140 with a grade of C or better, and Harmony/AT Exam. The study of the diverse types of vocal combinations with attention to age groups, ensemble size and styles. Particular attention to text setting and the voice with various instrumental possibilities.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1024, MUS 2130, MUS 2140 with a grade of C or better and Harmony/AT Exam.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Private Violin

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3300

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Violoncello

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3301

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description

The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School

Fine Arts

Course Information

Course Title
Private String Bass

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3302

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description

The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School

Fine Arts

Course Information

Course Title
Private Viola

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3303

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Harp

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3350

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Repeatable for Credit:
Yes

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Private Flute/Piccolo

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3400

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description

The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School

Fine Arts

Course Information

Course Title
Private Oboe/Eng Horn

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3401

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description

The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School

Fine Arts

Course Information

Course Title
Private Clarinet

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3402

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Bassoon

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3403

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Saxophone

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3404

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Trumpet

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3500

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Horn

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3501

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description

The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Trombone

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3502

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description

The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Private Tuba/Euphonium

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3503

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Music Applications

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Full Admission to the Teacher Education Program. Course content is directed toward the music education needs of prospective elementary classroom teachers.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Full admission to the Teacher Education Program.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Music Applications

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3540

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
This course is designed for pre-service elementary school classroom teachers to experience music through singing, playing instruments, moving, reading and writing. They will research, learn and collect a repertoire of music activities for incorporating into and enhancing learning in the general curriculum. Candidates will also reflect upon the role of music in the lives and education of children. Individual, small group and large group activities and assignments will be strategies used in this course.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
This course is designed for pre-service elementary school classroom teachers to experience music through singing, playing instruments, moving, reading and writing. They will research, learn and collect a repertoire of music activities for incorporating into and enhancing learning in the general curriculum. Candidates will also reflect upon the role of music in the lives and education of children. Individual, small group and large group activities and assignments will be strategies used in this course.

All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Private Organ

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3600

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Repeatable for Credit:
Yes

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Musical Theatre Movement I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3650

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
An introductory course in the fundamentals of ballet technique for majors in the Bachelor of Music in Performance: Musical Theatre Concentration. No prior dance experience required. All music majors must achieve a grade of “C” in each music course.

College/School
Fine Arts

Syllabus
MUS 3650 Musical Theatre Movement I Syllabus.docx

Requisites and Restrictions

Prerequisite:
Enrollment in the Bachelor of Music, Performance Concentration: Musical Theatre Option.

Course Information

Course Title
Musical Theatre Movement II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3660

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
A continuation of Musical Theatre Movement I (MUS 3650), this course progresses to intermediate level instruction in the fundamentals of ballet technique for majors in the Bachelor of Music, Performance concentration - Musical Theatre option. All music majors must achieve a grade of "C" in each music course.

College/School
Fine Arts

Syllabus
MUS 3660 Musical Theatre Movement II Syllabus.docx

Requisites and Restrictions

Prerequisite:
Prerequisites: MUS 3650 and enrollment in the Bachelor of Music, Performance Concentration: Musical Theatre Option.

Course Information

Course Title
Musical Theatre Movement III

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3670

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
An introductory course in the fundamentals of tap technique for majors in the Bachelor of Music Performance concentration: Musical Theatre option. No prior dance experience required. All music majors must achieve a grade of "C" in each music course.

College/School
Fine Arts

Syllabus
MUS 3670 Musical Theatre Movement III Syllabus.docx

Requisites and Restrictions

Prerequisite:
Prerequisites: MUS 3650 and enrollment in the Bachelor of Music, Performance Concentration: Musical Theatre Option.

Course Information

Course Title
Musical Theatre Movement IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3680

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
A continuation of Musical Theatre Movement III (MUS 3670), this course progresses to intermediate level in the fundamentals of tap dance technique for students enrolled in the Bachelor of Music, Performance concentration - Musical Theatre option. All music majors must achieve a grade of "C" in each music course.

College/School
Fine Arts

Syllabus
MUS 3680 Musical Theatre Movement IV Syllabus (5).docx

Requisites and Restrictions

Prerequisite:
Prerequisites: MUS 3670 and enrollment in the Bachelor of Music, Performance Concentration: Musical Theatre Option.

Course Information

Course Title
Private Percussion

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3700

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Pedagogy/Literature I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3710

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Techniques, materials, and methodologies used in the application of learning theory to studio instruction.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Pedagogy/Literature II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3720

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Techniques, materials and literature for use in the pedagogy of the studio instrument and its generic family in preparation for a studio teaching career.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Pedagogy/Literature III

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3730

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisites: MUS 3720 Pedagogy/Literature II. This course is part of a six-semester sequence for Multiple Woodwinds majors in the Bachelor of Music: Performance degree. This course covers the repertoire and teaching strategies for the first of the student's four secondary woodwind instruments.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 3720.

Course Information

Course Title
Vocal Pedagogy & Lit I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3800

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
A study in methodologies, principles, and procedures developed for systematized learning in the art of singing. Directed information for the singer, studio teacher, and choral director. Vocal acoustics, breathing, and laryngeal functions are studied.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Vocal Pedagogy & Lit II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3810

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: MUS 3800 with a grade of C or better. Teaching strategies and philosophies, diagnosis of vocal faults, stage deportment, vocal repertoire, and ethics for teachers are studied. Supervised lab experience in teaching by participating students.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 3800 with a grade of C or better.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Private Guitar

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3900

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Junior Recital

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3950

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Consent of studio instructor. Corequisite: Enrollment in upper level private instruction in pertinent studio. Recital fee applies. Bachelor of Music in Performance majors must earn a grade of B or better to pass.

College/School
Fine Arts

Course Information

Course Title
Junior Project

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
3960

Credit Hours

Credit Hours:
1

Other Hours

Min:
3

Course Description
This course is designed as a junior capstone experience. The nature of the work is open-ended, therefore the form and content of the project will be decided by the student and the chosen advisor for the course (usually, but not limited to, the student's academic mentor or applied teacher). The project design should include practical and academic components and should traverse various areas interest (can include the student's minor or concentration). All music majors must achieve a grade of "C" in each music course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course.

Course Information

Course Title
Senior Recital

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4000

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Prerequisite: Consent of studio instructor. Corequisite: Enrollment in Upper Level Private Instruction in pertinent studio.

Recital fee applies. The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. Bachelor of Music in Performance majors must earn a grade of B or better to pass.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Senior Project

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4010

Credit Hours

Credit Hours:
1

Other Hours

Min:
3

Course Description
This course is designed as the senior capstone experience. The nature of the work is open-ended, therefore the form and content of the project will be decided by the student and the chosen advisor for the course (usually, but not limited to, the student's academic mentor or applied teacher). The project design should include practical and academic components and should traverse various areas of interest (can include the student's minor or concentration). All music majors must achieve a grade of "B" in this course.

College/School
Fine Arts

Course Information

Course Title
Hist & Lit of Jazz

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4110

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Jazz traced from its multi-ethnic origin through to its present form and its influences on American culture.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Contemporary Music

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4120

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: MUS 3010 or 3020 and MUS 2110-2120 with a grade of C or better. The culture of musical pluralism since World War II, including art music, jazz, rock, and folk.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 3010 or MUS 3020 and MUS 2110-MUS 2120 with a grade of C or better.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Recording Techniques

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4250

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisite: MUS 1024, MUS 2130, 2140 with a grade of C or better, and Harmony/AT Exam. An introduction to sound recording, including analog and digital formats. Emphasis on applications appropriate to performing musicians.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1024, MUS 2130, MUS 2140 with a grade of C or better and Harmony/AT Exam.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Composition

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4400

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Course Information

Course Title
Conducting

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4500

Credit Hours

Credit Hours:
1

Credit Hours:
2

Other Hours

Min:
1

Max:
2

Operator:
TO

Repeatable for Credit:
Yes

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Computer App In Music

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4510

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisite: MUS 1120 and 1130 with a grade of C or better. An introduction to computer applications in music performance, composition, teaching, and related fields.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 1120 and MUS 1130 with a grade of C or better.

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Intro to Bus and Entr/Musician

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4560

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Course Description
This course will focus on the skills required of performers and educators in the modern job market including: writing biographies and artist statements, an introduction to online marketing, building a private studio, building a freelancing career, and fundraising. Course for Music Majors, Minors, and Non-majors with an interest in Music Business.

College/School
Fine Arts

Course Information

Course Title
Mus Business/Entrepreneurship

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4650

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Course Description
Registration is restricted to sophomores, juniors and seniors. This course will focus on the skills required of performers and educators in the modern job market including: writing biographies and artist statements, an introduction to online marketing, building a private studio, building a freelancing career, and fundraising.

College/School
Fine Arts

Course Information

Course Title
Supervised Teaching Exp I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4710

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Activities designed to offer supervised, practical experience in private studio teaching: planning and presenting lessons, and directing individual study.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Supervised Teaching Exp II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4720

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Continuation of MUS 4710 (5710).All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

College/School
Fine Arts

Requisites and Restrictions

Note:
All music majors must achieve a grade of "C" in each music course. If a lower grade is earned, the student must repeat the course.

Course Information

Course Title
Supervised Teaching Exp III

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4730

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: MUS 4720. This course is part of a six-semester sequence for Multiple Woodwinds majors in the Bachelor of Music: Performance degree. This course covers the repertoire and teaching strategies for the last of the student's four secondary woodwind instruments. All music majors must achieve a grade of "C" in each music course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
MUS 4720 (5720).

Note:
All music majors must achieve a grade of "C" in each music course.

Course Information

Course Title
Musical Theatre Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4800

Credit Hours

Credit Hours:
6

Other Hours

Min:
6

Course Description
Prerequisite: Enrollment in B.M, Performance concentration - Musical Theatre option and approval of instructor. This course is an internship for students in the Bachelor of Music, Performance concentration - Musical Theatre option. The internship is with a faculty approved theatre company or performance venue, with preference given to the Cumberland County Playhouse in Crossville, TN. All music majors must achieve a grade of "B" in this course.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Enrollment in B.M. in Performance: Musical Theatre Concentration and approval of instructor.

Note:
All music majors must achieve a grade of "B" in this course.

Course Information

Course Title
Internship in Musical Theatre

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
4810

Credit Hours

Credit Hours:
9

Other Hours

Min:
9

Repeatable for Credit:
No

Course Description
Prerequisite: Enrollment in B.M, Performance concentration
- Musical Theatre option and approval of instructor. This course is an internship for students in the Bachelor of Music, Performance concentration - Musical Theatre option. The internship is with a faculty-approved theatre company or performance venue, with preference given to the Cumberland County Playhouse in Crossville, TN. All music majors must achieve a grade of "B" in this course.

College/School
Fine Arts

Syllabus
MUS 4810 - Internship in Musical Theatre.pdf

Requisites and Restrictions

Prerequisite:
Enrollment in B.M., Performance concentration - Musical Theatre option and approval of instructor.

Course Information

Course Title
Live Audio Intro A

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUSA

Course Number
2010

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
An introductory level course in live audio engineering that will focus on the basics of audio system design. This will include the interconnection and function of system components, cabling, connectors, signal impedance, gain structure, and an introduction to signal processing. All music majors must achieve a grade of "C" in each music course.

College/School
Fine Arts

Syllabus
MUSA 2010 Live Audio Intro A.docx

Course Information

Course Title
Live Audio Intro B

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUSA

Course Number
2020

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: MUSA 2010. An introductory level course in live audio engineering that will focus on room acoustics, properties of sound waves, and psychoacoustics. Students will be introduced to a variety of shop tools and trained in their safe use. Students will be taught to load, transport, and unload professional grade audio equipment. All music majors must achieve a grade of "C" in each music course.

College/School
Fine Arts

Syllabus
MUSA 2020 Live Audio Intro B.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: MUSA 2010.

Course Information

Course Title
Live Audio Intmed A

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUSA

Course Number
3010

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: MUSA 2020. An intermediate level course in live audio engineering that will focus on the operation of more complex audio systems. Students will learn listening skills for audio mixing, microphone selection and placement, and loudspeaker design and application. All music majors must achieve a grade of "C" in each music course.

College/School
Fine Arts

Syllabus
MUSA 3010 Live Audio Intmed A.docx

Requisites and Restrictions

Prerequisite:
Prerequisite: MUSA 2020.

Course Information

Course Title
Live Audio Intmed B

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUSA

Course Number
3020

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: MUSA 3010. An intermediate level course in live audio engineering that will focus on parametric EQ, compressors, and gates for enhanced audio mixing. This course will cover performance monitors as well as digital effects, wireless microphones, and the basics of RF technology. All music majors must achieve a grade of "C" in each music course.

College/School
Fine Arts

Syllabus
MUSA 3020 Live Audio Intmed B.docx

Requisites and Restrictions

Prerequisite:
MUSA 3010

Course Information

Course Title
Live Audio Adv. A

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUSA

Course Number
4010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Lab Hours

Min:
0

Repeatable for Credit:
No

Course Description
Prerequisite: MUSA 3020. An advanced level course in live audio engineering that will focus on the operation of complex audio systems. Students will be introduced to in-ear and advanced monitor mixing, advanced miking techniques for musical theater, and advanced RF topics. Students will also learn AC power distribution systems, rigging safety, and on-site repair. All music majors must achieve a grade of "C" in each music course.

College/School
Fine Arts

Syllabus
MUSA 4010 Live Audio Advanced A.docx

Requisites and Restrictions

Prerequisite:
MUSA 3020

Course Information

Course Title
Live Audio Adv. B

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUSA

Course Number
4020

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: MUSA 4010. An advanced level course in live audio engineering that will focus on the operation of complex audio systems. Students will be taught advanced EQ and compression techniques as well as the miking of non-traditional instruments. Students will be introduced to Ableton® and MainStage® digital audio workstations, live performance recording techniques (DECCA/ORTF) and trained in the use of Pro Tools® for live recording applications. All music majors must achieve a grade of "C" in each music course.

College/School
Fine Arts

Syllabus
MUSA 4020 Live Audio Advanced B.docx

Requisites and Restrictions

Prerequisite:
MUSA 4010

Course Information

Course Title
Live Audio Pro A

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUSA

Course Number
4030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Lab Hours

Min:
0

Repeatable for Credit:
No

Course Description
Prerequisite: MUSA 4020. A professional level course in live audio engineering that will focus on the expert design, operation, troubleshooting, and maintenance of complex audio systems. Students will be introduced to acoustic simulation and loudspeaker modeling software, the planning and management of live events, and the roles of front of house engineer, monitor engineer, system engineer, and stage techs. All music majors must achieve a grade of "B" is in this course.

College/School
Fine Arts

Syllabus
MUSA 4030 Live Audio Professional A.docx

Requisites and Restrictions

Prerequisite:
MUSA 4020

Course Information

Course Title
Live Audio Pro B

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUSA

Course Number
4040

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Prerequisite: MUSA 4030. A professional level course in live audio engineering that will focus on sound reinforcement for orchestral miking, design and installation of fixed audio systems, and venue structural and power needs. Students will also begin preparations for entry into the professional world by learning about professional organizations, continuing education opportunities, and tour/travel etiquette. All music majors must achieve a grade of "B" in this course.

College/School
Fine Arts

Syllabus
MUSA 4040 Live Audio Professional B.docx

Requisites and Restrictions

Prerequisite:
MUSA 4030

Course Information

Course Title
Intro to Music Therapy

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUST

Course Number
1220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MUST major. Beginning skills for music therapy: song accompaniment, teaching and leading; song repertoire development; group leadership skills; basic instrumental skills.

College/School
Fine Arts

Course Information

Course Title
Intermd Techq/Music Therapy

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUST

Course Number
2220

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
2

Course Description
Prerequisite: MUST major; MUST 1220 or consent of instructor. Teaching and modeling techniques; therapy techniques: relaxation with music, songwriting, musical improvisation, song arranging for ensembles, song repertoire development.

College/School
Fine Arts

Course Information

Course Title
Clinical Orientation

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUST

Course Number
2310

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: MUST major; MUST 2110 with a grade of C or better. The music therapy treatment process and related clinical skills.

College/School
Fine Arts

Course Information

Course Title
Psychology of Music

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUST

Course Number
3520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Human musical behavior, auditory perception, emotional response to music; reading and evaluating research literature in psychology of music.

College/School
Fine Arts

Course Information

Course Title
Adv Techniques/Music Therapy

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUST

Course Number
3220

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Prerequisite: MUST major; MUST 1220, MUST 2220 or consent of instructor. Advanced group leadership techniques and music therapy procedures, including: lyric discussion, client songwriting, advanced improvisation. Group process; music therapy with various treatment models.

College/School
Fine Arts

Course Information

Course Title
Music Therapy Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUST

Course Number
3530

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisite: MUST major with grade of C or better in MUST 3520; admission to Professional Level. Research designs and models; assigned project in music therapy/music psychology research.

College/School
Fine Arts

Course Information

Course Title
Special Topic in Music Therapy

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUST

Course Number
4110

Credit Hours

Credit Hours:
2

Lab Hours

Min:
4

Course Description
Prerequisite: Consent of Director of Music Therapy. Individualized study in an area of music therapy research or clinical practice approved by the instructor.

College/School
Fine Arts

Course Information

Course Title
Mus Therapy Theory/Pract I

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUST

Course Number
4220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MUST major; admission to Professional Level. Theory and applications of music therapy with identified conditions and disabilities. Study of professional issues.

College/School
Fine Arts

Course Information

Course Title
Mus Therapy Theory /Pract II

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUST

Course Number
4230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MUST major; admission to Professional Level. Theory and applications of music therapy with identified conditions and disabilities (Continuation of MUST 4220).

College/School
Fine Arts

Course Information

Course Title
Practicum in Music Therapy

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUST

Course Number
4510

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Prerequisite: MUST major; consent of Director of Music Therapy. Supervised clinical field work in music therapy. Setting, clients and skill-development levels to be designated in consultation with instructor.

College/School
Fine Arts

Course Information

Course Title
Internship in Music Therapy

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUST

Course Number
4610

Credit Hours

Credit Hours:
6

Lab Hours

Min:
12

Course Description
Prerequisite: MUST major; completion of all required on-campus course work. A six-month (1040 hours) internship at an AMTA-approved training site.

College/School
Fine Arts

Course Information

Course Title
Acting I

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
1015

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Fall. Fundamentals of the acting process examined through improvisation, characterization, text analysis, and basic acting technique.

College/School
Fine Arts

Course Information

Course Title
Fundamentals of Acting

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
1016

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Fundamentals of the acting process examined through improvisation, characterization, text analysis, and basic acting technique.

College/School
Arts and Sciences

Syllabus
THEA 1016 - Fundamentals of Acting .docx

Course Information

Course Title
Stagecraft I

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
1025

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Fall. An introduction to theatre technology including construction techniques, shop safety, types of scenery, scale drawing, common materials, and scene painting. Students will gain practical experience working on TTU theatre productions.

College/School
Fine Arts

Course Information

Course Title
Intro to Theater

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
1030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Theatre appreciation, designed to enhance the student's enjoyment of plays.

College/School
Fine Arts

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Acting II

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
2015

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: THEA 1015 Continuation of the principles explored in THEA 1015 with a greater emphasis on scene work, text analysis, and character development.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
THEA 1015.

Course Information

Course Title
Intermediate Acting

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
2016

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite: THEA 1016. Continuation of the principles explored in THEA 1016 with a greater emphasis on scene work, text analysis, and character development.

College/School
Arts and Sciences

Syllabus
THEA 2016 - Intermediate Acting .pdf

Requisites and Restrictions

Prerequisite:
THEA 1016

Course Information

Course Title
Stagecraft II

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
2025

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: THEA 1025. Spring. Advanced stagecraft continues with scenic techniques including renderings and scale models, stage lighting theory and practice, sound design, and projections. Advanced students will serve as assistants to the technical director and as crew heads for TTU theatre productions.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
THEA 1025.

Course Information

Course Title
Play Production

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
2110

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Practical experience on any phase of an English department production from playwriting to performance or committee or crew work. (Courses may be repeated for credit.)

College/School
Fine Arts

Course Information

Course Title
Voice-Diction/Actrs-Non-Actrs

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
2155

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Interactive course covering basic elements of voice production and articulation.

College/School
Fine Arts

Requisites and Restrictions

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Theatrical Makeup

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
2500

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
THEA 2500 introduces students to the principles and practices of theatrical makeup for live performance. Designed for students in both the Technical Theatre and Performance Theatre concentrations, the course explores how makeup contributes to character development, storytelling, and visual cohesion on stage. Students will learn foundational techniques in corrective, character, period, and stylized makeup while developing practical application skills through hands-on work and performance-based projects.

College/School
Arts and Sciences

Syllabus
THEA 2500 - Theatrical Makeup.pdf

Course Information

Course Title
History of the Theatre

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
3000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Representative theatrical styles from the classical through contemporary periods.

College/School
Fine Arts

Course Information

Course Title
Theater Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
3001

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
2

Course Description
Coursework chosen on the basis of student interest and need. (May be taken for credit more than once if the topic is different each time.)

College/School
Fine Arts

Requisites and Restrictions

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Fundamentals of Playwriting

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
3002

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An introduction to the art and craft of writing plays, by analyzing character, actions, ideas, language, spectacle, and music.

College/School
Fine Arts

Course Information

Course Title
Theatrical Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: THEA 2025. THEA 3200 will explore the history, components, and creation of theatrical design. Students will gain a full understanding of the design process and concepts of scenic, lighting, costumes, and sound design. Lectures will provide the background knowledge, while the projects will provide the hands-on design experience.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
THEA 2025.

Course Information

Course Title
Film Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
3600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
This course will focus on the film work of significant movie directors, performers, cinematographers or on a particular film genre. The student will gain a sense of the work of that director, performer, cinematographer, as well as the challenges they face putting together a film. Or, the student will get an opportunity to examine films that are significant to that particular genre. We will examine film practices, film directors, actors, cinematographers, or film genres as chosen by the instructor. The student will be responsible for watching the films in class, discussing the films and writing about the films.

College/School
Fine Arts

Course Information

Course Title
Sound Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
3800

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
THEA 3800 introduces students to the principles and practices of theatrical sound design. Intended for students in the Technical Theatre concentration, the course explores how sound supports storytelling, atmosphere, and emotional impact in live performance. Students will develop foundational skills in sound design theory, audio editing, system setup, and cue programming, while gaining hands-on experience.

College/School
Arts and Sciences

Syllabus
THEA 3800 - Sound Design.pdf

Course Information

Course Title
Advanced Acting

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: THEA 2015. Advanced voice and movement study for the stage with an emphasis on period acting styles; in-depth script and character analysis; and advanced scene study.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
THEA 2015.

Course Information

Course Title
Shakespeare

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
4121

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Historical, thematic and other approaches in the study of Shakespeare. (May be repeated once as an elective provided the course content is different.)

College/School
Fine Arts

Course Information

Course Title
Theatre Design Practicum

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: THEA 1025, THEA 2025, THEA 3200. Students are assigned as scenic, lighting, sound, or costume designers for a TTU theatre production.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
THEA 1025, THEA 2025, and THEA 3200.

Course Information

Course Title
Play Directing

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
4300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Script analysis and principles of direction. Students direct plays for public performance.

College/School
Fine Arts

Requisites and Restrictions

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Dramatic Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
4400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Study of representative plays drawn from the classical through contemporary periods.

College/School
Fine Arts

Course Information

Course Title
Creative Dramatics

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Use of an individual's dramatic imagination as a learning and teaching device.

College/School
Fine Arts

Requisites and Restrictions

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Theatre Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
THEA

Course Number
4600

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisite: Junior/Senior Status and consent of instructor. Part-time or full-time employment in a business or institution setting related to a student's academic and career goals. Cannot be taken in place of required or elective theatre courses, undergraduate or graduate. Course can be taken twice, as long as the student interns in a different business or institution for each internship.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Junior/Senior Status and consent of instructor.

Course Information

Course Title
First-Year Music Connections

Academic Level (Course Level)
Undergraduate

Course Subject Code
UNMU

Course Number
1020

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
This course engages music students in meaningful artistic, academic and non-academic out-of-classroom activities, emphasizing critical thinking in the formation of academic and artistic goals and providing essential guidance in self-management, study skills, and artistic development.

College/School
Fine Arts

Nursing Department

Welcome to the Whitson-Hester School of Nursing at Tennessee Tech. Committed to the highest standards of teaching, research, service, and practice, we are dedicated to advancing the nursing profession and meeting the diverse healthcare needs of our society. Our passionate community of educators, scholars, and graduates work together to create an enriching environment that upholds a tradition of excellence. Join us as we lead and innovate in the ever-evolving world of healthcare.

Contact Us

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Whitson-Hester School of Nursing

Campus Box 5001

Cookeville, TN 38505

Physical Address:

Bell Hall 201

Tennessee Technological University

10 W 7th Street

Cookeville, TN 38501

Programs

NURS-ABSN - Nursing, Accelerated Nursing Concentration, B.S.N.

Program Overview

Program Long Title
Nursing, Accelerated Nursing Concentration, B.S.N.

College/School
Whitson-Hester School of Nursing

Department(s)
Nursing

Requirements

Simple Requirements

Nursing, Accelerated Nursing Concentration, B.S.N. (120 credits)

Type
Completion Requirement

Requirements for NURS/Accelerated Nursing Concentration, B.S.N

Complete ALL of the following Courses:

- CHEM1210 - Chemistry for Life Sciences
  OR CHEM1110 - General Chemistry I
  OR CHEM1010 - Introductory Chemistry I
- ENGL1010 - English Composition I
- HIST2010 - Early United States History
- MATH1530 - Introductory Statistics
- BIOL2010 - Human Anatomy & Physiology I
- ENGL1020 - English Composition II
- HIST2020 - Modern United States History
- BIOL2020 - Human Anatomy & Physiology II
- BIOL3230 - Health Science Microbiology
- PSY1030 - Introduction to Psychology
- HEC2020 - Nutrition
- NURS4010 - NURS 4010: Gerontological Nursing for the ABSN Student
- NURS3260 - Health Assessment/Promotion
  AND NURS3261 - Health Assessmnt/Promotion Lab
- NURS3270 - Fundamentals of Nursing
  AND NURS3271 - Fundamentals of Nursing Lab
- NURS3320 - NURS 3320: Community Health Nursing for the ABSN Student
  AND NURS3321 - NURS 3321: Community Health Nursing: Lab for the ABSN Student
- NURS3345 - NURS 3345: Pathophysiological Processes I for the ABSN Student
- NURS3310 - NURS 3310: Mental Health Nursing for the ABSN Student
  AND NURS3311 - NURS 3311: Mental Health Nursing: Lab for the ABSN Student
- NURS3340 - NURS 3340: Medical/Surgical Nursing I for the ABSN Student
  AND NURS3341 - NURS 3341: Medical/Surgical Nursing I/ ABSN Student: Lab
- NURS3245 - NURS 3245: Pharmacology in Nursing I for the ABSN Student
- NURS3440 - NURS 3440: Medical Surgical Nursing II for the ABSN Student
  AND NURS3441 - NURS 3441: Medical Surgical Nursing II for the ABSN Student: Lab
- NURS4260 - Women's Health, Perinatal Care & Nursing Care of Children
- NURS4345 - Pathological Processes & Pharmacological Concepts II
- NURS4201 - NURS 4201: Women's Health & Perinatal Nursing for the ABSN Student: Lab
- NURS4300 - Research in Health Care
- NURS4550 - Critical Care Nursing
- NURS4750 - NURS 4750: Leadership and Management for the ABSN Student
- NURS4460 - Preparation for Licensure
- NURS4600 - Lifespan Clinical Immersion
- NURS1010 - Univ. & Nursing Orientation
- NURS2300 - Intro to Professional Nursing

Additional Requirements:

NURS ELECTIVE (2 cr.)

Humanities/Fine Arts Electives (6 credits)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Social/Behavioral Science Elective (3 cr.)

Earn at least 3 credits from the following:

- Social and Behavioral Sciences (GEDS)

Communication - Oral Communication (3 cr.)

Earn at least 3 credits from the following:

- Communication (GEDC) - Oral Communication

Financial Literacy or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Nursing, ABSN (120 hours)
Total Degree Map Credits
63
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Year 1	Summer 1 - Intercession	2

Requirement Select

- NURS4010 - NURS 4010: Gerontological Nursing for the ABSN Student

Actual Credits 2

Year	Semester	Actual Credits
Year 1	Summer - First Term	6

Requirement Select

- NURS3260 - Health Assessment/Promotion
- **AND** NURS3261 - Health Assessmnt/Promotion Lab

Actual Credits 3

Requirement Select
- NURS3270 - Fundamentals of Nursing
- **AND** NURS3271 - Fundamentals of Nursing Lab

Actual Credits 3

Year	Semester	Actual Credits
Year 1	Summer - Second Term	8

Requirement Select
- NURS3320 - NURS 3320: Community Health Nursing for the ABSN Student
- **AND** NURS3321 - NURS 3321: Community Health Nursing: Lab for the ABSN Student

Actual Credits 6

Requirement Select
- NURS3345 - NURS 3345: Pathophysiological Processes I for the ABSN Student

Actual Credits 2

Year	Semester	Actual Credits
Year 1	Fall	15

Requirement Select
- NURS3310 - NURS 3310: Mental Health Nursing for the ABSN Student
- **AND** NURS3311 - NURS 3311: Mental Health Nursing: Lab for the ABSN Student

Actual Credits 5

Requirement Select
- NURS3340 - NURS 3340: Medical/Surgical Nursing I for the ABSN Student
- **AND** NURS3341 - NURS 3341: Medical/Surgical Nursing I/ABSN Student: Lab

Actual Credits 7

Requirement Select
- NURS3245 - NURS 3245: Pharmacology in Nursing I for the ABSN Student

Actual Credits 3

Year	Semester	Actual Credits
Year 1	Spring	18

Requirement Select
- NURS3440 - NURS 3440: Medical Surgical Nursing II for the ABSN Student
- **AND** NURS3441 - NURS 3441: Medical Surgical Nursing II for the ABSN Student: Lab

Actual Credits 7

Requirement Select
- NURS4260 - Women's Health, Perinatal Care & Nursing Care of Children

Actual Credits 5

Requirement Select
- NURS4345 - Pathological Processes & Pharmacological Concepts II

Actual Credits 3

Requirement Select
- NURS4300 - Research in Health Care

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Summer 1 - Intercession	2

Requirement Select
- NURS4201 - NURS 4201: Women's Health & Perinatal Nursing for the ABSN Student: Lab

Actual Credits 2

Year	Semester	Actual Credits
Year 2	Summer - First Term	2

Requirement Select
- NURS4550 - Critical Care Nursing

Actual Credits 2

Year	Semester	Actual Credits
Year 2	Summer - Second Term	3

Requirement Select
- NURS4750 - NURS 4750: Leadership and Management for the ABSN Student

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Summer - Full Term	7

Requirement Select
- NURS4460 - Preparation for Licensure

Actual Credits 1

Requirement Select
- NURS4600 - Lifespan Clinical Immersion

Actual Credits 6

NURS-BSN - Nursing, B.S.N.

Program Overview

Program Long Title
Nursing, B.S.N.

College/School
Whitson-Hester School of Nursing

Department(s)
Nursing

Requirements

Simple Requirements

Nursing, B.S.N (120 hours)

Type
Completion Requirement

Course Requirements for Nursing, BSN

Complete ALL of the following Courses:

- CHEM1210 - Chemistry for Life Sciences
  OR CHEM1110 - General Chemistry I
  OR CHEM1010 - Introductory Chemistry I
- ENGL1010 - English Composition I
- HIST2010 - Early United States History
- MATH1530 - Introductory Statistics
- NURS1010 - Univ. & Nursing Orientation
- BIOL2010 - Human Anatomy & Physiology I
- ENGL1020 - English Composition II
- HIST2020 - Modern United States History
- NURS2300 - Intro to Professional Nursing
- BIOL3230 - Health Science Microbiology
- BIOL2020 - Human Anatomy & Physiology II
- NURS3100 - Navigating Nursing School: Strategies for Student Success
- NURS3260 - Health Assessment/Promotion
  AND NURS3261 - Health Assessmnt/Promotion Lab
- NURS3270 - Fundamentals of Nursing
  AND NURS3271 - Fundamentals of Nursing Lab
- NURS3290 - Pathophysiological Process I
- PSY1030 - Introduction to Psychology
- HEC2020 - Nutrition
- NURS3242 - Pharm Concepts in Nursing I
- NURS3250 - Medical/Surgical Nursing I
  AND NURS3280 - Medical/Surgical Nurs Lab I
- NURS3370 - Mental Health Nursing
  AND NURS3371 - Mental Health Nursing Lab
- NURS3350 - Medical-Surgical Nursing II
  AND NURS3361 - Medical/Surgical Nurse II Lab
- NURS3390 - Pathoplgcl Prcss-Prof Nurse II
- NURS4800 - Gerontological Nursing
- NURS4000 - Women's Health & Perinatal Nursing
  AND NURS4001 - Women's Health & Perinatal Nursing Lab
- NURS4100 - Nursing Care of Children
  AND NURS4101 - Nursing Care of Children Lab
- NURS4230 - Pharm Concepts in Nursing II
- NURS4300 - Research in Health Care
- NURS4430 - Health of Communities
  AND NURS4431 - Health Care of Communities Lab
- NURS4450 - Leadership & Management
  AND NURS4451 - Leadership & Management Lab
- NURS4460 - Preparation for Licensure
- ELECTIVE - Elective Credit
- ELECTIVE - Elective Credit

Humanities and Cultural Expression Electives (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Social/Behavioral Science Elective (3 cr.)

Earn at least 3 credits from the following:

- Social and Behavioral Sciences (GEDS)

Communication (Oral Comm.) - 3 cr.

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication

Financial or Digital Literacy (3 cr.)

Complete ANY of the following Course Sets:

- Financial Literacy or Digital Literacy (FFDL)

Additional Comments:
NURS-BSN majors are required to complete 2 credit hours of approved Nursing elective courses.

Degree Map

Degree Map Name
Degree Map - Nursing, B.S.N.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	Fall	14

Requirement Select

- CHEM1210 - Chemistry for Life Sciences
  OR
- CHEM1110 - General Chemistry I
  OR
- CHEM1010 - Introductory Chemistry I

Actual Credits 4

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select

- NURS1010 - Univ. & Nursing Orientation

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Spring	18

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- NURS2300 - Intro to Professional Nursing

Actual Credits 2

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Fall	17

Requirement Select
- BIOL2020 - Human Anatomy & Physiology II

Actual Credits 4

Requirement Select
- BIOL3230 - Health Science Microbiology

Actual Credits 4

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Spring	15

Requirement Select
- HEC2020 - Nutrition

Actual Credits 3

Requirement Select
- NURS3260 - Health Assessment/Promotion
- **AND** NURS3261 - Health Assessmnt/Promotion Lab

Actual Credits 3

Requirement Select
- NURS3270 - Fundamentals of Nursing
- **AND** NURS3271 - Fundamentals of Nursing Lab

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Requirement Select
- NURS3100 - Navigating Nursing School: Strategies for Student Success

Actual Credits 1

Requirement Select
- NURS3290 - Pathophysiological Process I

Actual Credits 2

Year	Semester	Actual Credits
Junior Year	Fall	14

Requirement Select
- NURS3250 - Medical/Surgical Nursing I
- **AND** NURS3280 - Medical/Surgical Nurs Lab I

Actual Credits 7

Requirement Select
- NURS3242 - Pharm Concepts in Nursing I

Actual Credits 2

Requirement Select
- NURS3370 - Mental Health Nursing
- **AND** NURS3371 - Mental Health Nursing Lab

Actual Credits 5

Year	Semester	Actual Credits
Junior Year	Spring	12

Requirement Select
- Nursing elective (1 cr.) (Generic)

Actual Credits 1

Requirement Select
- NURS3350 - Medical-Surgical Nursing II
- **AND** NURS3361 - Medical/Surgical Nurse II Lab

Actual Credits 7

Requirement Select
- NURS3390 - Pathoplgcl Prcss-Prof Nurse II

Actual Credits 2

Requirement Select
- NURS4800 - Gerontological Nursing

Actual Credits 2

Year	Semester	Actual Credits
Senior Year	Fall	15

Requirement Select
- NURS4000 - Women's Health & Perinatal Nursing
- **AND** NURS4001 - Women's Health & Perinatal Nursing Lab

Actual Credits 5

Requirement Select
- NURS4100 - Nursing Care of Children
- **AND** NURS4101 - Nursing Care of Children Lab

Actual Credits 5

Requirement Select
- NURS4230 - Pharm Concepts in Nursing II

Actual Credits 2

Requirement Select
- NURS4300 - Research in Health Care

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	15

Requirement Select
- NURS4430 - Health of Communities
- **AND** NURS4431 - Health Care of Communities Lab

Actual Credits 6

Requirement Select
- NURS4450 - Leadership & Management
- **AND** NURS4451 - Leadership & Management Lab

Actual Credits 7

Requirement Select
- NURS4460 - Preparation for Licensure

Actual Credits 1

Requirement Select
- Nursing elective (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select
- Note: BIOL 1123 is required for those with Natural Science ACT score below 17.
  (Generic)

Actual Credits -

Requirement Select
- A total of 2 hours of Nursing or other electives approved and substituted with permission from the Nursing School.
  (Generic)

Actual Credits -

Requirement Select
- Students who require readmission to the nursing program after an unsuccessful semester will be required to take NURS 4990, a special topics course focused on testing remediation and study habits.
  (Generic)

Actual Credits -

NURS-NURN - Nursing, Registered Concentration, B.S.N.

Program Overview

Program Long Title
Nursing, Registered Concentration, B.S.N.

College/School
Whitson-Hester School of Nursing

Department(s)
Nursing

Requirements

Simple Requirements

Nursing, Registered Nursing Concentration, B.S.N. (120 hours)

Type
Completion Requirement

Nursing, Registered Concentration, B.S.N.

Complete ALL of the following Courses:

- NURS3250 - Medical/Surgical Nursing I
  AND NURS3280 - Medical/Surgical Nurs Lab I
- NURS3270 - Fundamentals of Nursing
  AND NURS3271 - Fundamentals of Nursing Lab
- NURS3350 - Medical-Surgical Nursing II
  AND NURS3361 - Medical/Surgical Nurse II Lab
- NURS3370 - Mental Health Nursing
  AND NURS3371 - Mental Health Nursing Lab
- NURS4000 - Women's Health & Perinatal Nursing
  AND NURS4001 - Women's Health & Perinatal Nursing Lab
- NURS4100 - Nursing Care of Children
  AND NURS4101 - Nursing Care of Children Lab
- NURS3281 - Health Assessment-Promotion
- NURS3430 - Survey of Pharm Aspect of Nurs
- NURS3380 - Pathaphys Proc for Prof Nurse
- NURS3465 - Bridging-Prof Nursing Practice
- NURS4300 - Research in Health Care
- NURS4351 - Hlth Cr-Comm Lab (RN-BSN)
  AND NURS4350 - Hlth Care of Comm (RN-BSN)
- NURS4450 - Leadership & Management
  AND NURS4451 - Leadership & Management Lab
- BIOL2010 - Human Anatomy & Physiology I
- BIOL2020 - Human Anatomy & Physiology II
- BIOL3230 - Health Science Microbiology
- MATH1530 - Introductory Statistics
- PSY1030 - Introduction to Psychology
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

Additional Requirement:

Nursing Electives (13 credits) - to total 120 earned hours

Humanities/Fine Arts Electives (6 cr.)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Social/Behavioral Science Elective (3 cr.)

Earn at least 3 credits from the following:

- Social and Behavioral Sciences (GEDS)

Communication - oral communication (3 cr.)

Earn at least 3 credits from the following:

- Communication (GEDC) - Oral Communication

Financial Literacy or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Nursing, R.N./B.S.N.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	13

Requirement Select
- Electives (4 cr.)
  (Generic)

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	14

Requirement Select
- BIOL2010 - Human Anatomy & Physiology I

Actual Credits 4

Requirement Select
- BIOL3230 - Health Science Microbiology

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- BIOL2020 - Human Anatomy & Physiology II

Actual Credits 4

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	-	32

Requirement Select
- NURS3250 - Medical/Surgical Nursing I

Actual Credits 4

Requirement Select
- NURS3281 - Health Assessment-Promotion
  OR
- NURS3260 - Health Assessment/Promotion
  OR
- NURS3261 - Health Assessmnt/Promotion Lab

Actual Credits 3

Requirement Select
- Take NURS 3281 (3 cr.) or both NURS 3260 (2 cr.) and NURS 3261 (1 cr.)
  (Generic)

Actual Credits -

Requirement Select
- NURS3270 - Fundamentals of Nursing
- **AND** NURS3271 - Fundamentals of Nursing Lab

Actual Credits 3

Requirement Select
- NURS3280 - Medical/Surgical Nurs Lab I

Actual Credits 3

Requirement Select
- NURS3350 - Medical-Surgical Nursing II

Actual Credits 4

Requirement Select
- NURS3361 - Medical/Surgical Nurse II Lab

Actual Credits 3

Requirement Select
- NURS3370 - Mental Health Nursing
- **AND** NURS3371 - Mental Health Nursing Lab

Actual Credits 5

Requirement Select
- NURS3380 - Pathaphys Proc for Prof Nurse

Actual Credits 3

Requirement Select
- NURS3465 - Bridging-Prof Nursing Practice

Actual Credits 4

Year	Semester	Actual Credits
Senior Year	-	30

Requirement Select
- NURS3430 - Survey of Pharm Aspect of Nurs

Actual Credits 3

Requirement Select

- NURS4000 - Women's Health & Perinatal Nursing
- **AND** NURS4001 - Women's Health & Perinatal Nursing Lab

Actual Credits 5

Requirement Select

- NURS4100 - Nursing Care of Children
- **AND** NURS4101 - Nursing Care of Children Lab

Actual Credits 5

Requirement Select

- NURS4300 - Research in Health Care

Actual Credits 3

Requirement Select

- NURS4350 - Hlth Care of Comm (RN-BSN)
- **AND** NURS4351 - Hlth Cr-Comm Lab (RN-BSN)

Actual Credits 7

Requirement Select

- NURS4450 - Leadership & Management
- **AND** NURS4451 - Leadership & Management Lab

Actual Credits 7

Requirement Select

- 1. Thirty-two credit hours are awarded for these courses upon completion of 12 hours of NURS coursework. (Generic)

Actual Credits -

Courses

Course Information

Course Title
Univ. & Nursing Orientation

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
1010

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
A course designed to strengthen the student's connection to TTU and the Whitson Hester School of Nursing by engaging the student in meaningful academic and nonacademic activities both in and out of the classroom. It emphasizes critical thinking in the formation of academic and social goals and support groups, and in self-management and study skills. The course includes a career inquiry project/activity, which students should share. Pre and Co-requisites: None.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
1st Yr Nursing: Univ & Nurs

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
1020

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Prerequisites: First-time college student, minimum ACT 20 and high school grade point average 3.00. A course designed to enhance connection of the first-time college student with the University and to nursing. This course is designed to augment skills required for academic success through academic and non-academic out-of-classroom activities.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
First-time college student, minimum ACT score of 20 and high school GPA 3.00.

Course Information

Course Title
Community Health Worker

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
2240

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
This course will focus on community health improvement by engaging and enhancing the ability of students to impact their population of focus through motivational interviewing to change health behaviors. The student leaders will also seek to understand current public health issues impacting the community and leverage community assets to combat misinformation.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Intro to Professional Nursing

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
2300

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Historical perspectives, mathematics, and terminology basic to nursing; critical thinking and professional communication; and roles of the professional nurse.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Introduction to Global Health

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
2400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course offers a foundational overview of global health, examining key health issues, social and environmental determinants, and the systems and structures that impact population health worldwide. Understanding the interconnectedness of the global economy, security, and health is essential to civic engagement. As the COVID-19 pandemic has demonstrated, global health affects us all in ways that extend beyond healthcare. Emphasis is placed on access, ethics, and the interdisciplinary nature of global health. Students will acquire the tools to analyze challenges, evaluate interventions, and comprehend the significance of examining healthcare at the international level.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Communication in Health Care

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
2600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This foundational course introduces students to the principles and practices of effective communication within healthcare settings to emphasize the development of professional values, clinical judgment, and interprofessional collaboration. Students will explore communication theories, active listening strategies, and culturally responsive approaches to engage patients, families, and members of the healthcare team. Emphasis is placed on building therapeutic relationships, utilizing evidence-based communication frameworks such as the Health Belief Model, Theory of Planned Behavior and Social Cognitive Theory, and applying ethical principles to enhance safety, quality, and patient-centered care.

College/School
Whitson-Hester School of Nurs

Syllabus
Communication in HealthCare Syllabus.docx

Course Information

Course Title
Ethics of Nursing Practice

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3000

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
An elective course that provides an introduction to the ethical principles that guide nursing practice. Students will examine current ethical issues encountered in nursing practice in the context of the healthcare setting.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to Upper Division Nursing; concurrent enrollment; or permission of instructor.

Course Information

Course Title
Managing the End of Life

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3010

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
The role of culture, palliative and hospice care, family dynamics, advance directives, and spirituality encountered during death and dying will be described. Interactions, healing strategies, and rituals that use the senses and bring comfort and peace for the dying will also be explored.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to Upper Division Nursing; concurrent enrollment; or permission of instructor.

Mrg Two Wolrds/Spirituality-Hlthcr

Course Information

Course Title
Mrg Two Wrlds/Spirtuality-Hlth

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3020

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
This course is designed for students in the healthcare disciplines. To provide a holistic perspective of how spirituality and religion impact health and resultant healthcare decisions.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to Upper Division Nursing; concurrent enrollment; or permission of instructor.

Course Information

Course Title
Cultural Senstvty/Hlthcr Setng

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3030

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
Introduction to diverse cultures and promotion of the development of cultural sensitivity in health care.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to Upper Division Nursing; concurrent enrollment; or permission of instructor.

Collaborative Care: Nurses' Role in the Health Care Team

Course Information

Course Title
Collaborative Care:

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3040

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course examines the role of the interdisciplinary health care team to make a difference in the lives of patients. It prepares the student to contribute in significant ways to safe and effective care within a multidisciplinary team.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Ped Illnesses/Related Care

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3050

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
This course provides a study of the more common illnesses of the pediatric population requiring inpatient treatment.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Breastfeeding & Lactation Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3060

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
This elective course in nursing for students of all disciplines is designed to introduce and provide in-depth knowledge on breastfeeding and human lactation.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Prep for Disasters in Hlthcr

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3080

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
This 2-hour credit course will better prepare nursing and health science graduates to respond to disaster response and management. Focus on the dynamics and needs of individuals, families, and communities during the various types of disaster and better prepare healthcare personnel to respond accordingly. Prerequisite : Nursing major, Sophomore Standing and Higher, Students of Other Major per Faculty Permission. Corequisites: None

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Nursing Major; sophomore standing or higher; students of other major per faculty permission.

Navigating Nursing School: Strategies for Student Success

Course Information

Course Title
Nav Nurs Sch Strat for Stu Suc

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3100

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
The Nursing School Success course is designed to help students succeed in their nursing education by providing them with the knowledge, skills, and strategies needed to excel academically and professionally. The course covers a range of topics related to nursing education, including study skills, time management, critical thinking, test-taking strategies, communication skills, and professionalism. Students will learn how to effectively manage their time, prioritize tasks, and stay organized in order to succeed in the demanding and rigorous curriculum of nursing school. They will also develop critical thinking skills that are essential for nursing practice, such as clinical reasoning, problem-solving, and decision-making.

College/School
Whitson-Hester School of Nurs

Syllabus
NURS 3100 Nursing School Success Syllabus (2).docx

Requisites and Restrictions

Corequisite:
Co-Requisites: NURS 3260, NURS 3270, and NURS 3345.

Course Information

Course Title
Intro-Applied Clinical Phrmcgy

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to drug classifications, mechanism of action, and management of medications in the clinical setting. The focus of the course is on identification and management of side effects, drug-drug and drug-food interactions, and evaluation of medications' effectiveness.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
BIOL 1010

Course Information

Course Title
Cultural Competence in Hlthcre

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course considers human diversity through the lens of healthcare. The purpose of this course is to provide a foundation of knowledge, skills, and attitudes that will enable students to better meet the challenges of providing culturally competent care by raising student awareness of diverse cultures and the impact of cultural diversity in healthcare, developing methods of gaining cultural competence with working with diverse cultures in various healthcare settings, and fostering a desire for life-long learning in the pursuit of culturally competent care.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Pharm Concepts in Nursing I

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3230

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Introduction to major drug classifications, including actions, interactions, reactions, and contraindications as well as monitoring parameters. This course will prepare the nurse to safely administer medications, monitor drug therapy, and teach the client to safely take part in his/her drug regimen.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Pharm Concepts in Nursing I

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3240

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite or Corequisite: NURS 3290. Introduction to drug classifications, mechanisms of action, and management of medications.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite or corequisite:
NURS 3290

Course Information

Course Title
Pharm Concepts in Nursing I

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3242

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite: NURS 3290. Introduction to drug classifications, mechanisms of action, and management of medications.

College/School
Whitson-Hester School of Nurs

Syllabus
11c1 NURS.Memo.newcourse Number.NURS 3242.pdf

Requisites and Restrictions

Prerequisite:
Pre-requisite NURS 3290

NURS 3245: Pharmacology in Nursing I for the ABSN Student

Course Information

Course Title
Pharm Concepts/ABSN Stu

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3245

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to drug classifications, mechanisms of action, and management of medications. Includes study and test-taking skills and may include experiential learning experiences/activities.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite or corequisite:
Prerequisite or Corequisite: NURS 3345, NURS 3340.

Course Information

Course Title
Medical/Surgical Nursing I

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3250

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Repeatable for Credit:
No

Number Of Repeats:
1

Number Of Credits:
4

Course Description
Corequisite: NURS 3280. Prerequisites: NURS 3240, 3260, 3261, 3270, 3271. Corequisite OR Prerequisites: NURS 3240, 3290. Concepts of psychosocial and physiological aspects of health/illness and therapeutic communication.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3240, 3260, 3261, 3270, 3271

Corequisite:
NURS 3280

Prerequisite or corequisite:
NURS 3240, NURS 3290

Course Information

Course Title
Health Assessment/Promotion

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3260

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Corequisite NURS 3261. Prerequiste: Admission to Upper Division Nursing. Introductory course to health assessment will focus on comprehensive data collection through history and physical examination.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to Upper Division Nursing.

Corequisite:
NURS 3261.

Course Information

Course Title
Health Assessmnt/Promotion Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3261

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
Corequisite NURS 3260. Prerequiste: Admission to Upper Division Nursing. Lab experience focuses on the integration and application of the psychomotor skills necessary for assessing the health status of clients.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to Upper Division Nursing.

Corequisite:
NURS 3260.

Course Information

Course Title
Fundamentals of Nursing

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3270

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Co-requisite: NURS 3271. Prerequiste: Admission to Upper Division Nursing. Course is designed to introduce the student to basic concepts, principles and skills necessary for building an effective nursing practice. Nursing process is introduced as a foundation for future clinical application.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to Upper Division Nursing.

Corequisite:
NURS 3271.

Course Information

Course Title
Fundamentals of Nursing Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3271

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
Corequisite NURS 3270. Prerequiste: Admission to Upper Division Nursing. Introductory course in nursing designed to teach the student basic clinical skills and apply the process of criticial thinking.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to Upper Division Nursing.

Corequisite:
NURS 3270.

Course Information

Course Title
Medical/Surgical Nurs Lab I

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3280

Credit Hours

Credit Hours:
3

Lab Hours

Min:
9

Course Description
Corequisite: NURS 3250. Prerequisites: NURS 3260, 3261, 3270, 3271. Corequisite OR Prerequisite: NURS 3240, 3290. Performance of nursing skills in lab and clinical settings based on principles of nursing process and practice.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3260, 3261, 3270, 3271

Corequisite:
NURS 3250

Prerequisite or corequisite:
NURS 3240, 3290

Course Information

Course Title
Health Assessment-Promotion

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3281

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
1

Course Description
This course is an introduction to health assessment based on an understanding of anatomy and physiology and social sciences. The focus is on comprehensive data collection through history and physical examination.

College/School
Whitson-Hester School of Nurs

Pathophysiological Process I

Course Information

Course Title
Pathoplgcl Prcss-Prof Nurse I

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3290

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Number Of Repeats:
1

Number Of Credits:
2

Course Description
Prerequisites: Admission to Upper Division Nursing. Focus on the physiological responses to various common diseases, disorders, and disruptions affecting humans.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to Upper Division Nursing.

NURS 3310: Mental Health Nursing for the ABSN Student

Course Information

Course Title
Mental Hlth Nrs/ABSN Stu

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course focuses on the professional nursing care of patients with acute and chronic psychiatric health needs and introduces the students to concepts related to the human responses to stress, mental illness and mental health. Emphasis is placed on communication and the use of the nursing process in meeting the psychosocial and physical needs of the individuals.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3260, NURS 3261, NURS 3270, NURS 3271.

Corequisite:
NURS 3311.

Prerequisite or corequisite:
NURS 3345, NURS 3245.

NURS 3311: Mental Health Nursing: Lab for the ABSN Student

Course Information

Course Title
Mntl Hlth Nurs/ABSN Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3311

Credit Hours

Credit Hours:
2

Lab Hours

Min:
2

Repeatable for Credit:
No

Course Description
This course emphasizes therapeutic communication skills, critical thinking and therapeutic nursing care in a variety of mental health settings. Legal and ethical considerations for the nurse and mental health client are also included. Experiences may include acute inpatient, outpatient, residential, and community settings and may include substance abuse treatment facilities.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3260, NURS 3261, NURS 3270, NURS 3271.

Corequisite:
NURS 3310.

Prerequisite or corequisite:
NURS 3345, NURS 3245.

NURS 3320: Community Health Nursing for the ABSN Student

Course Information

Course Title
Cmnity Health Nrs/ABSN

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: NURS 3260/3261 and 3270/3271. Corequisite: NURS 3321. Focus on the dynamics and nursing needs of individuals, families, and communities.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3260, NURS 3261, NURS 3270, NURS 3271.

Corequisite:
NURS 3321.

NURS 3321: Community Health Nursing: Lab for the ABSN Student

Course Information

Course Title
Cmnity Hth Nrs:Lab/ABSN

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3321

Credit Hours

Credit Hours:
3

Lab Hours

Min:
9

Repeatable for Credit:
No

Course Description
Prerequisites: NURS 3260/32621 and 3270/3271. Corequisite: NURS 3320. Organization and delivery of nursing care of individuals, families, and communities in a variety of healthcare settings.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3260/32621 and 3270/3271

Corequisite:
NURS 3320

Course Information

Course Title
Enrichment in Nursing

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3330

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: Admission into Upper Division Nursing. Focus of study is individual and group remediation for students who are readmitted into the School of Nursing.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission into Upper Division Nursing.

NURS 3340: Medical/Surgical Nursing I for the ABSN Student

Course Information

Course Title
Med Surg Nurs I/ABSN Stu

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3340

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Repeatable for Credit:
No

Course Description
This course focuses on the professional nursing care of patients with acute and chronic medical-surgical health needs. The 2nd degree student is introduced to nursing theory and concepts related to human responses to illness. Emphasis is placed on nursing process and therapeutic communication in meeting the physical and psychosocial needs of individuals. This course introduces the 2nd degree student to the nurse/client relationship and concepts of psychosocial aspects of health and incorporates pathophysiology, growth and development, culture, and legal/ethical issues in nursing care.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3260, NURS 3261, NURS 3270, NURS 3271.

Corequisite:
NURS 3341.

Prerequisite or corequisite:
NURS 3345, NURS 3245.

NURS 3341: Medical/Surgical Nursing I/ABSN Student: Lab

Course Information

Course Title
Med Srg Nrs I/ABSN Stu:Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3341

Credit Hours

Credit Hours:
3

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course emphasizes the application of nursing skills and nursing processes for 2nd degree students to meet the physiological and psychological needs of individuals in the acute care setting. Professional issues of responsibility, accountability, collaboration, and ethical/legal issues are introduced in this course and evaluated in the class and clinical setting.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3260, NURS 3261, NURS 3270, NURS 3271.

Corequisite:
NURS 3340.

Prerequisite or corequisite:
NURS 3345, NURS 3245.

NURS 3345: Pathophysiological Processes I for the ABSN Student

Course Information

Course Title
Pathophys/ABSN Student

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3345

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
The focus of the course is to provide the accelerated professional nursing student with an understanding of pathophysiological principles as the basis for nursing assessment and therapeutic intervention and emphasizing the physiological responses to various common diseases, disorders, and disruptions affecting humans. Major diseases will be explored, in part by using a conceptual approach.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to 2nd degree ABSN concentration.

Course Information

Course Title
Medical-Surgical Nursing II

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3350

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Repeatable for Credit:
No

Number Of Repeats:
1

Number Of Credits:
4

Course Description
Prerequisite: NURS 3250, 3280, 3290, 3240. Corequisite: NURS 3361. Medical-surgical nursing concepts including communication skills, teaching/learning principles, ethical/legal, and economic issues

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3250, 3280, 3290, 3240

Corequisite:
NURS 3361

Course Information

Course Title
Medical/Surgical Nursing II

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3360

Credit Hours

Credit Hours:
5

Lecture Hours

Min:
5

Course Description
Corequisite: NURS 3361. Medical-surgical nursing concepts; also including communication skills, teaching/learning principles, ethical/legal, and economic issues.

College/School
Agricultural/Human Sciences

Requisites and Restrictions

Corequisite:
NURS 3361.

Course Information

Course Title
Medical/Surgical Nurse II Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3361

Credit Hours

Credit Hours:
3

Lab Hours

Min:
9

Course Description
Prerequisite: NURS 3240, 3250, 3280, 3290. Corequisite: NURS 3350. Emphasizes the application of the nursing process in a variety of medical-surgical clinical settings.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3240, 3250, 3280, 3290

Corequisite:
NURS 3350

Course Information

Course Title
Mental Health Nursing

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3370

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Corequisite: NURS 3371. Prerequisites: NURS 3260, 3261, 3270, 3271. Corequisite OR Prerequisite: NURS 3240, 3290. Basic mental health nursing concepts; also including communication skills, teaching/learning principles, ethical/legal, and economic issues.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3260, 3261, 3270, 3271

Corequisite:
NURS 3371

Prerequisite or corequisite:
NURS 3240, 3290

Course Information

Course Title
Mental Health Nursing Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3371

Credit Hours

Credit Hours:
2

Lab Hours

Min:
6

Repeatable for Credit:
No

Course Description
Corequisite: NURS 3370. Prerequisites: NURS 3260, 3261, 3270, 3271. Corequisite OR Prerequisite: NURS 3240, 3290. Emphasizes the application of the nursing process in a variety of mental health clinical settings.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3260, 3261, 3270, 3271

Corequisite:
NURS 3370

Prerequisite or corequisite:
NURS 3240, 3290

Course Information

Course Title
Pathaphys Proc for Prof Nurse

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3380

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course will examine the outcomes of disruption of normal physiology; the alterations and mechanisms involved in the disruption; and the manifestations in disease and at risk conditions. Major diseases will be explored, in part by using a conceptual approach. The focus of the course is to provide the professional nurse with an understanding of pathophysiological principles as the basis for nursing assessment and therapeutic intervention.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Pathoplgcl Prcss-Prof Nurse II

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3390

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Course Description
Prerequisite: NURS 3290. Focuses on physiological responses to acute and critical diseases, disorders, and disruptions affecting humans.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3290.

Course Information

Course Title
Survey of Pharm Aspect of Nurs

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: NURN standing or permission of the instructor. Review and update of major drug groups, administering drugs, and intravenous solutions with implications for nursing practice.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURN standing or permission of the instructor.

NURS 3440: Medical Surgical Nursing II for the ABSN Student

Course Information

Course Title
Med-Surg Nurs II/ABSN Stu

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3440

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Repeatable for Credit:
No

Course Description
This course emphasizes medical-surgical theory and introduces the 2nd degree student to basic teaching/learning principles for practice with introduction to medical-surgical nursing concepts as applied to individuals, families, and community groups. The medical-surgical content provides a basis for responding to complex health patterns and specific pathophysiological processes through application of the nursing process. Communication skills, professional development of the nurse, teaching/learning principles, ethical/legal, and economic issues are integrated throughout the course.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3245, NURS 3340, NURS 3341

Corequisite:
NURS 3441.

Prerequisite or corequisite:
NURS 4345

NURS 3441: Medical Surgical Nursing II for the ABSN Student: Lab

Course Information

Course Title
Med-Srg Nrs II/ABSN Stu:Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3441

Credit Hours

Credit Hours:
3

Lab Hours

Min:
3

Course Description
Prerequisites: NURS 3245, NURS 3340, NURS 3341. Corequisites: NURS 3440. Pre- or Co-requisite: NURS 4345. This course emphasizes the application of the nursing process in a variety of medical/surgical settings. Second degree students utilize therapeutic communication, critical thinking, and nursing intervention in the nursing care of adult patients. Professional development of the nurse and ethical/legal and economic issues are incorporated throughout the course.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3245, NURS 3340, NURS 3341.

Corequisite:
NURS 3440.

Prerequisite or corequisite:
NURS 4345

Course Information

Course Title
Personal Wellness Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3450

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Holistic approach to assisting individuals in the promotion of wellness including: health guidance, nutrition, stress reduction, and fitness.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Bridging-Prof Nursing Practice

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
3465

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Course Description
An online course designed for RN¿s to bridge the gap between technical skills and professional nursing practice by focusing on self analysis and validation of one¿s own ability to utilize critical thinking, communication, and therapeutic intervention in nursing practice and to identify improvement areas for life long learning in a changing healthcare environment.

College/School
Whitson-Hester School of Nurs

Women's Health & Perinatal Nursing

Course Information

Course Title
Women's Hlth & Perinatal Nurs

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Number Of Repeats:
1

Number Of Credits:
3

Course Description
Prerequisite: NURS 3261, NURS 3290 and NURS 3350, 3361, 3240. Corequisite: NURS 4001. This course focuses on concepts of professional nursing care of women in their childbearing years and their families. This course encompasses knowledge of growth and development, culture, family, and pathophysiology from the natural and social sciences, and liberal arts in assessing, implementing, and evaluating the health needs of these populations.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3261, NURS 3290 and NURS 3350, 3361, 3240

Corequisite:
NURS 4001

Women's Health & Perinatal Nursing Lab

Course Information

Course Title
Wmn's Hlth & Perintl Nurs Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4001

Credit Hours

Credit Hours:
2

Lab Hours

Min:
6

Repeatable for Credit:
No

Number Of Repeats:
1

Number Of Credits:
2

Course Description
Prerequisite: NURS 3261, NURS 3290 and NURS 3350, 3361, 3240. Corequisite: NURS 4000. This course focuses on implementation of the nursing process with women in their childbearing years and their families. This course applies knowledge of growth and development, culture, family, and pathophysiology from the natural and social sciences, and liberal arts in assessing, implementing and evaluating the health needs of these populations.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3261, NURS 3290 and NURS 3350, 3361, 3240

Corequisite:
NURS 4000

NURS 4010: Gerontological Nursing for the ABSN Student

Course Information

Course Title
Gerontological Nrs/ABSN

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4010

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Physical and psychosocial processes affecting nursing and the older population.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission into Upper Division Nursing.

Course Information

Course Title
Sign Language I

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to and development of a basic vocabulary in Signed English concepts in the use of alternative methods of communication.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Sign Language II

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4090

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: NURS 4050. Continuation of vocabulary development in Signed English and appreciation of practical situations in various professional fields.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 4050.

Course Information

Course Title
Nursing Care of Children

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Number Of Repeats:
1

Number Of Credits:
3

Course Description
Corequisite: NURS 4001. Prerequisites: NURS 3350, 3361, 3290, 3240. This course focuses on concepts of professional nursing care of children and their families. This course encompasses knowledge of growth and development, culture, family, and pathophysiology from the natural and social sciences, and liberal arts in assessing, implementing, and evaluating the health needs of these populations.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3350, 3361, 3290, 3240

Corequisite:
NURS 4001

Course Information

Course Title
Nursing Care of Children Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4101

Credit Hours

Credit Hours:
2

Lab Hours

Min:
6

Repeatable for Credit:
No

Number Of Repeats:
1

Number Of Credits:
2

Course Description
Prerequisite: NURS 3290 , 3240, 3350, 3361. Corequisite: NURS 4100. This course focuses on implementation of the nursing process with children and their families. This course applies knowledge of growth and development, culture, family and pathophysiology from the natural and social sciences and liberal arts in assessing, implementing, and evaluating the health needs of these populations.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3290 , 3240, 3350, 3361

Corequisite:
NURS 4100

Course Information

Course Title
Applied Clinical Pharmcgy II

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: NURS 3110 and BIOL 2020. Further study of drug classifications, mechanism of action, and management of medications in the clinical setting. focus of the course is on management of medications used in inpatient settings.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3110 , BIOL 2020.

Course Information

Course Title
Wmns Hlth/Perntl Nrs/2nd Dgr

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: NURS 3260 and NURS 3250; Corequiste: 4201. This course focuses on concepts of professional nursing care of women in their childbearing age and their families.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3260, NURS 3250.

Corequisite:
NURS 4201.

NURS 4201: Women's Health & Perinatal Nursing for the ABSN Student: Lab

Course Information

Course Title
Wmns Hlth/Perntl Lab/ABSN

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4201

Credit Hours

Credit Hours:
2

Lab Hours

Min:
6

Repeatable for Credit:
No

Course Description
Co- or Prerequisite: NURS 4260. This course focuses on implementation of the nursing process with women in their childbearing age and their families.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite or corequisite:
NURS 4260.

Course Information

Course Title
Pharm Concepts in Nursing II

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4230

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Number Of Repeats:
1

Number Of Credits:
2

Course Description
Prerequisites: NURS 3240, 3250, 3290. Continued study of the major drug groups with emphasis on the responsibility of the nurse in medication administration, patient education, and health promotion.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3240, 3250, 3290

Course Information

Course Title
Clinic Immrsn/Disc Intrfcs

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4240

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
This course focuses on team-based identification of unmet medical needs and development of robust solutions. Select disease conditions will be discussed and technologies used to address those conditions will be examined. Students will participate in simulation lab and clinical immersion for experiential learning in hospitals, urgent care facilities, assisted living facilities, senior citizen centers, and/or other healthcare settings.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Nursing students: Junior or Senior Standing or consent of instructor. Chemical Engineering students: Junior or Senior Standing in Chemical Engineering or consent of instructor.

Women's Health, Perinatal Care & Nursing Care of Children

Course Information

Course Title
Wmns Hlth,Perintl-Nrs Cre/Chld

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4260

Credit Hours

Credit Hours:
5

Lecture Hours

Min:
5

Repeatable for Credit:
No

Course Description
Prerequisites: NURS 3340, 3341, 3345, 3245. This course focuses on concepts of professional nursing care of women in their childbearing years, children and their families. This course encompasses knowledge of growth and development, culture, family, and pathophysiology from the natural and social sciences, and liberal arts in assessing, implementing, and evaluating the health needs of these populations.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3340, NURS 3341, NURS 3345, NURS 3245.

Course Information

Course Title
Research in Health Care

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: NURS 3250, 3280 or NURS 3340, 3341 or Permission of Instructor. Study the research process with development and presentation of a completed research proposal.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3250 and NURS 3280 or NURS 3340 and NURS 3341 or permission of instructor.

Course Information

Course Title
Health Care Delivery in US

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Overview of the US Health system delivery and the influence health policy has on healthcare operations.

College/School
Whitson-Hester School of Nurs

Pathological Processes & Pharmacological Concepts II

Course Information

Course Title
Patholog Proc/Pharm Conc II

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4345

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: NURS 3245, 3345. This course will integrate science and skills of pathophysiology and pharmacology addressing physiological adaptations, pharmacological effects, health promotion, and disease prevention for major acute disease processes. Major diseases will be explored, in part by using a conceptual approach. The focus of the course is to provide the professional nurse with an understanding of pathophysiological and pharmacological principles as the basis for nursing assessment and therapeutic intervention.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3245, NURS 3345

Course Information

Course Title
Hlth Care of Comm (RN-BSN)

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4350

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Course Description
Corequisite: NURS 4351. Focus on the dynamics and nursing needs of individuals, families, communities, national, and international groups. (For RN-BSN Students)

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Corequisite:
NURS 4351.

Course Information

Course Title
Hlth Cr-Comm Lab (RN-BSN)

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4351

Credit Hours

Credit Hours:
3

Lab Hours

Min:
9

Course Description
Prerequisite: NURS 4000, NURS 4001, NURS 4100 and NURS 4230. Corequisite: NURS 4430. Organization and delivery of nursing care to individuals, families, and groups in a variety of community health care settings (for RN-BSN Students.)

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 4000, NURS 4001, NURS 4100 and NURS 4230.

Corequisite:
NURS 4430.

Course Information

Course Title
Oncology Nursing

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4360

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisites: Consent of instructor. Focus on oncology nursing and hospice concepts used to provide care for the clients with cancer in a community or institutional setting.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Preparation for Parenting

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4370

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing or consent of instructor. Focus on parenting skills with infants and children and labor, delivery, and newborn care.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Sophomore Standing or consent of instructor.

Course Information

Course Title
Intro to Critical Care Nursing

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of instructor. Developing critical care assessment skills, emphasizing nursing decision-making, problem-solving, and intervention.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Cardiorespiratory Intens Care

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of instructor. Care of clients with cardiovascular and respiratory deficits requiring invasive, therapeutic nursing interventions; cardiac dysrhythmias.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Health of Communities

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: NURS 4000, NURS 4001, NURS 4100 and NURS 4230. Corequisite: NURS 4431. Focus on the dynamics and nursing needs of individuals, families, communities, national, and international groups.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 4000, NURS 4001, NURS 4100 and NURS 4230.

Corequisite:
NURS 4431.

Course Information

Course Title
Health Care of Communities Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4431

Credit Hours

Credit Hours:
3

Lab Hours

Min:
9

Course Description
Prerequisites: NURS 4000, NURS 4001, NURS 4100, NURS 4101 and NURS 4230; Corequisite: NURS 4430. Organization and delivery of nursing care to individuals, families, and groups in a variety of community health care settings.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 4000, NURS 4001, NURS 4100, NURS 4101 and NURS 4230.

Corequisite:
NURS 4430.

Course Information

Course Title
Leadership & Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4450

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Number Of Repeats:
1

Number Of Credits:
3

Course Description
Prerequisite: NURS 4000, NURS 4001, NURS 4100, 4101 and NURS 4230. Corequisite: NURS 4451. Introduction to concepts of leadership and management in nursing; preparation for role transition from student to graduate.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 4000, NURS 4001, NURS 4100, 4101 and NURS 4230

Corequisite:
NURS 4451

Course Information

Course Title
Leadership & Management Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4451

Credit Hours

Credit Hours:
4

Lab Hours

Min:
12

Repeatable for Credit:
No

Number Of Repeats:
1

Number Of Credits:
4

Course Description
Prerequisite: NURS 4000, NURS 4001, NURS 4100, 4101 and NURS 4230. Corequisite: NURS 4450. Clinical experiences applying concepts of management and leadership.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 4000, NURS 4001, NURS 4100, 4101 and NURS 4230

Corequisite:
NURS 4450

Course Information

Course Title
Preparation for Licensure

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4460

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
Prerequisites: Final semester or permission from the instructor. Preparation for success on the National Registered Nurse Lcensure Exam.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Final semester or permission of faculty.

Course Information

Course Title
School Health Nursing

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Senior nursing major or RN degree. Introduction to school health nursing and the role of the school nurse as caregiver, coordinator, manager, consultant, and leader. This course provides registered nurses with the necessary beginning skills to manage a comprehensive school health program.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Senior Nursing major or RN degree.

Course Information

Course Title
Critical Care Nursing

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4550

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisites: NURS 3440, 3441, 4345 or permission of faculty. This course introduces the student to critical care concepts which may be applied to individuals, families, and community groups. The critical care content provides a basis for responding to complex health patterns and specific pathophysiological processes. Through application of the nursing process students learn to provide complex therapeutic nursing interventions. Continued development of communication skills, professional development of the nurse, teaching/learning principles, ethical/legal, and economic issues are incorporated through the course.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3440, NURS 3441, NURS 4345 or permission of instructor.

Course Information

Course Title
Lifespan Clinical Immersion

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4600

Credit Hours

Credit Hours:
6

Other Hours

Min:
6

Course Description
Prerequisites: NURS 3440, 3441, 4345, 4201, 4260, 4550. NURS 4550 may be taken concurrently. Corequisite: NURS 4750. This comprehensive clinical immersion guides the student to apply concepts associated with the human lifespan, which may be applied to individuals, families, and community groups in various stages of illness, including critical care. The lifespan clinical immersion provides a basis for leading and managing complex health patters and specific pathophysiological processes of pediatric, adult, and elderly clients. Through application of the nursing process students learn to provide complex therapeutic nursing interventions. Continued development of communication skills, professional development of the nurse, knowledge of growth and development, teaching/learning principles, ethical/legal, and economic issues are incorporated throughout the course.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3440, NURS 3441, NURS 4345, NURS 4201, NURS 4260.

Corequisite:
NURS 4550, NURS 4750.

Course Information

Course Title
Summer Clinical Extern

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4610

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: NURS 3350 and NURS 3361. Skill-oriented clinical experience based on nursing process in the clinical area of the acute care or extended care facility.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3350 and NURS 3361.

Course Information

Course Title
Adv/Globl Awrns: Exp Cult Sens

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4700

Credit Hours

Credit Hours:
3

Lab Hours

Min:
6

Other Hours

Min:
1

Course Description
The course provides a trans-cultural experience through international travel and self exploration to increase personal and cultural awareness, sensitivity, and respect.

College/School
Whitson-Hester School of Nurs

NURS 4750: Leadership and Management for the ABSN Student

Course Information

Course Title
Ldrshp-Mgmt/ABSN Student

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4750

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: NURS 3440, 3441, 4345, 4201, 4260, 4550. Corequisite: NURS 4600. The focus of this course is the introduction of concepts of leadership and management for 2nd Degree students as they transition into professional practice.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3440, NURS 3441, NURS 4345, NURS 4201, NURS 4260, NURS 4550.

Corequisite:
NURS 4600.

Course Information

Course Title
Gerontological Nursing

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4800

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite: NURS 3250, NURS 3270, NURS 3271, NURS 3280 and NURS 3290, NURS 3260,3261. Physical and psychosocial processes affecting nursing the older patient.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
NURS 3250, NURS 3270, NURS 3271, NURS 3280 and NURS 3290, NURS 3260,3261

Course Information

Course Title
Concepts of Gerontology

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PSY 2130, PSY 3300 or SOC 1010. Physical and psychosocial aging processes. Issues in the care of the senior adult.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
PSY 2130, PSY 3300 or SOC 1010.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4981

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Course Description
Allows the student to undertake study in an area (topic) of nursing where there is no appropriate course. Students may take a total of up to 6 hours of independent study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to Upper Division Nursing; concurrent enrollment; or permission of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4982

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Allows the student to undertake study in an area (topic) of nursing where there is no appropriate course. Students may take a total of up to 6 hours of independent study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to Upper Division Nursing; concurrent enrollment; or permission of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4983

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Allows the student to undertake study in an area (topic) of nursing where there is no appropriate course. Students may take a total of up to 6 hours of independent study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Whitson-Hester School of Nurs

Requisites and Restrictions

Prerequisite:
Admission to Upper Division Nursing; concurrent enrollment; or permission of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4990

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Directed study and research on a selected topic. Available to students on an individual basis, with consent of the Dean, as faculty load permits. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4991

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Directed study and research on a selected topic. Abailable to students on an individual basis, with consent of the Dean, as faculty load permits.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4992

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Directed study and research on a selected topic. Abailable to students on an individual basis, with consent of the Dean, as faculty load permits.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4993

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Directed study and research on a selected topic. Abailable to students on an individual basis, with consent of the Dean, as faculty load permits.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4994

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Directed study and research on a selected topic. Abailable to students on an individual basis, with consent of the Dean, as faculty load permits.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4996

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Directed study and research on a selected topic. Abailable to students on an individual basis, with consent of the Dean, as faculty load permits.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4995

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Directed study and research on a selected topic. Abailable to students on an individual basis, with consent of the Dean, as faculty load permits.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4997

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Directed study and research on a selected topic. Abailable to students on an individual basis, with consent of the Dean, as faculty load permits.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4998

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Directed study and research on a selected topic. Abailable to students on an individual basis, with consent of the Dean, as faculty load permits.

College/School
Whitson-Hester School of Nurs

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
NURS

Course Number
4999

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

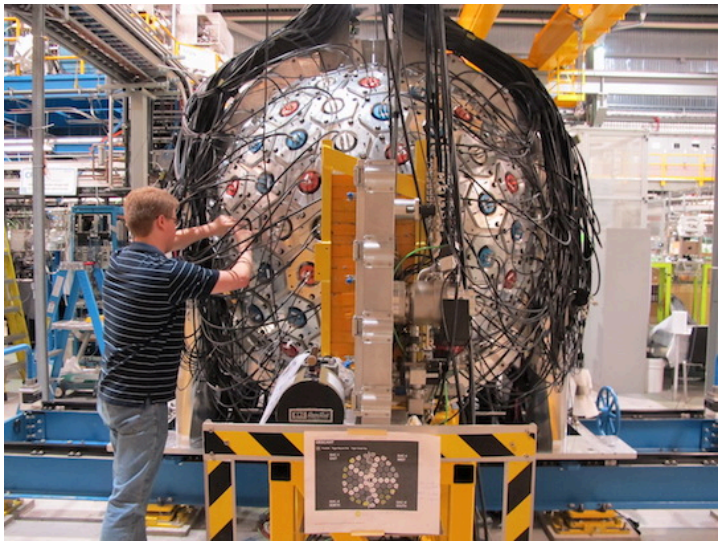
Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Directed study and research on a selected topic. Abailable to students on an individual basis, with consent of the Dean, as faculty load permits.

College/School
Whitson-Hester School of Nurs

Physics Department



Professor Robinson, Chairperson; Professors Holley, Kidd, Rajabali; Associate Professor Engelhardt (P); Assistant Professor Reid; Lecturers Engelhardt (R), Pangeni, Chattrakun

The Physics B.S. program has four concentrations, all of which are good preparation for graduate study in physics or another field of science or engineering and for those seeking immediate employment. As well as acquiring science knowledge, physics majors also develop both analytical thinking and practical skills which are an excellent foundation for a wide variety of careers, both within and beyond the traditional STEM fields.

The concentrations available within the Physics B.S. program at Tennessee Tech are:

Pure Physics - Rigorous preparation for graduate study in any area of physics. (Includes a Mathematics minor.)

Applied Physics - A more flexible program that includes a minor in another scientific or engineering field, or an interdisciplinary program tailored to student interest.

Astrophysics - For those who want to learn how the principles of physics are applied to understand the formation and evolution of planets, stars, galaxies, and the universe as a whole. (Includes an Astronomy minor.)

Computational Physics - Includes selected courses in computer science that prepare the student to work in the rapidly expanding field of applying computational techniques in physics. (Includes a Computer Science minor.)

Students in all concentrations complete the same foundational core of physics courses and all have opportunities to get involved in the research programs of faculty members, starting in the freshmen year. These research experiences may take place both during the regular semester and as summer internships and may involve work at external research facilities (such as National Labs) and travel to regional and national conferences.

Programs

ASTR-MIN - Astronomy Minor

Program Overview

Program Long Title
Astronomy Minor

College/School
Arts and Sciences

Department(s)
Physics

Requirements

Simple Requirements

Astronomy Minor

Type
Completion Requirement

Minor in Astronomy (ASTR)

A minor in Astronomy will consist of: ASTR 1010 - Introduction to Modern Astronomy I (Credit 4) ASTR 1020 - Introduction to Modern Astronomy II (Credit 4) AND At least seven hours of upper division courses as follows: A minimum of seven hours of 3000-4000 level ASTR courses, OR GEOL 3310 (Planetary Geology) and at least four hours of 3000-4000 level ASTR courses.

PHYS-APHY - Physics, Astrophysics Concentration, B.S.

Program Overview

Program Long Title
Physics, Astrophysics Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Physics

Requirements

Simple Requirements

Physics, B.S. (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Physics majors meet the Flight Foundation requirement Quantitative Reasoning and Analysis with MATH1910.

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Physics majors meet the Flight Foundation Scientific Reasoning requirement with PHYS 2110 and PHYS 2120.

Physics, Astrophysics Concentration, B.S. Core

Complete ALL of the following Courses:
- PHYS1137 - Frontiers of Physics
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- PHYS3020 - Topics in Modern Physics
- PHYS3021 - Modern Physics Laboratory
- PHYS3060 - PHYS 3060: Mathematical Techniques for Physics
- PHYS3610 - Classical Mechanics
- PHYS4610 - Classical Elect & Magnetism
- PHYS3120 - Statistical Thermal Physics
- PHYS3810 - Quantum Mechanics I
- ASTR1010 - Intro to Modern Astronomy I
- ASTR1020 - Intro to Modern Astronomy II
- ASTR3100 - Observational Astronomy
- ASTR4320 - Stellar Astrophysics
- ASTR4310 - Introduction to Cosmology
- ASTR4760 - Senior Thesis

Additional Program Requirements

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I
- PC2500 - Communicating in the Profess.
- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3470 - Intro/Prob & Stats
- CSC1300 - Intro/Prob Solving-Comp Prog
- CSC1310 - Data Structures and Algorithms
- GEOL3310 - Planetary Geoscience
- ELECTIVE - Elective Credit

Additional free electives (7 hours) are required to complete 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Physics, Astrophysics Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year

2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- PHYS1137 - Frontiers of Physics

Actual Credits 1

Requirement Select
- PC2500 - Communicating in the Profess.

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ASTR1020 - Intro to Modern Astronomy II

Actual Credits 4

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- PHYS3020 - Topics in Modern Physics
- **AND** PHYS3021 - Modern Physics Laboratory

Actual Credits 4

Requirement Select
- PHYS3060 - PHYS 3060: Mathematical Techniques for Physics

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Requirement Select
- ASTR1010 - Intro to Modern Astronomy I

Actual Credits 4

Requirement Select
- PHYS3610 - Classical Mechanics

Actual Credits 3

Requirement Select
- PHYS4610 - Classical Elect & Magnetism

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- GEOL3310 - Planetary Geoscience

Actual Credits 3

Requirement Select
- PHYS3120 - Statistical Thermal Physics

Actual Credits 3

Requirement Select
- PHYS3810 - Quantum Mechanics I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- ASTR3100 - Observational Astronomy

Actual Credits 3

Requirement Select
- ASTR4320 - Stellar Astrophysics

Actual Credits 4

Requirement Select
- Elective (2 cr.)
  (Generic)

Actual Credits 2

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	14

Requirement Select
- Electives (5 cr.)
  (Generic)

Actual Credits 5

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- ASTR4310 - Introduction to Cosmology

Actual Credits 3

Requirement Select
- ASTR4760 - Senior Thesis

Actual Credits 3

PHYS-CPHY - Physics, Computational Physics Concentration, B.S.

Program Overview

Program Long Title
Physics, Computational Physics Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Physics

Requirements

Simple Requirements

Physics, B.S. (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Physics majors meet the Flight Foundation Quantitative Reasoning and Analysis requirement with MATH1910.

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 credits)

Earn at least 3 credits from the following:
- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and/ Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:
- Scientific Reasoning (FFSR)

Physics majors meet the Flight Foundation Scientific Reasoning requirement with PHYS 2110 and PHYS 2120.

Physics, B.S. Core

Complete ALL of the following Courses:
- PHYS1137 - Frontiers of Physics
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- PHYS3020 - Topics in Modern Physics
- PHYS3021 - Modern Physics Laboratory
- PHYS3060 - PHYS 3060: Mathematical Techniques for Physics
- PHYS3610 - Classical Mechanics
- PHYS4610 - Classical Elect & Magnetism
- PHYS3120 - Statistical Thermal Physics
- PHYS3810 - Quantum Mechanics I
- PHYS4711 - Advanced Experimental Physics
- PHYS4130 - Computational Physics
- PHYS4760 - Senior Thesis
  OR CSC3020 - Numerical Methods

Additional Program Requirements

Complete ALL of the following Courses:
- CHEM1110 - General Chemistry I
- PC2500 - Communicating in the Profess.
- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3470 - Intro/Prob & Stats
- CSC1310 - Data Structures and Algorithms
- CSC1300 - Intro/Prob Solving-Comp Prog
- CSC2220 - Data Science & AI for Everyone
- CSC2400 - Design of Algorithms
- CSC3220 - Fundamentals of Data Science
- CSC2770 - Intro to Systems & Networking
- ELECTIVE - Elective Credit

Additional free electives (5 hours) are required to complete 120 earned hours.

CSC Elective Sequence

Complete at least 1 of the following courses:
- CSC2510 - Intro to DevOps with Unix
  AND CSC4760 - Parallel Programming
- CSC2700 - Discrete Structures for CSC
  AND CSC3300 - Database Mgmt Systems

Students choose one sequence; either (CSC 2510 AND CSC 4760) OR (CSC 2700 AND CSC 3300).

Degree Map

Degree Map Name
Degree Plan - Physics, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- PHYS1137 - Frontiers of Physics

Actual Credits 1

Requirement Select
- PC2500 - Communicating in the Profess.

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- CSC2220 - Data Science & AI for Everyone

Actual Credits 3

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- PHYS3020 - Topics in Modern Physics
- **AND** PHYS3021 - Modern Physics Laboratory

Actual Credits 4

Requirement Select
- PHYS3060 - PHYS 3060: Mathematical Techniques for Physics

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Requirement Select
- CSC3220 - Fundamentals of Data Science

Actual Credits 3

Requirement Select
- PHYS3610 - Classical Mechanics

Actual Credits 3

Requirement Select
- PHYS4610 - Classical Elect & Magnetism

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- CSC2770 - Intro to Systems & Networking

Actual Credits 3

Requirement Select
- PHYS3120 - Statistical Thermal Physics

Actual Credits 3

Requirement Select
- PHYS3810 - Quantum Mechanics I

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- CSC2400 - Design of Algorithms

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PHYS4711 - Advanced Experimental Physics

Actual Credits 2

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Elective credit (3 hrs)
  (Generic)

Actual Credits 3

Requirement Select
- CSC elective sequence (3 hrs)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	17

Requirement Select
- Electives (2 cr.)
  (Generic)

Actual Credits 2

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PHYS4130 - Computational Physics

Actual Credits 3

Requirement Select
- CSC Elective sequence (3 hrs.)
  (Generic)

Actual Credits 3

Requirement Select
- CSC3020 - Numerical Methods
  OR
- PHYS4760 - Senior Thesis

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- CSC Electives Sequence - choose (CSC 2510 and CSC 4760) or (CSC 2700 and CSC 3300).
  (Generic)

Actual Credits -

PHYS-MIN - Physics Minor

Program Overview

Program Long Title
Physics Minor

College/School
Arts and Sciences

Department(s)
Physics

Requirements

Simple Requirements

Physics Minor

Type
Completion Requirement

Physics (PHYS) Minor

A Physics minor consists of 15 hours in PHYS courses (six hours must be at the 3000-4000 level).

PHYS-PHAP - Physics, Applied Physics Concentration, B.S.

Program Overview

Program Long Title
Physics, Applied Physics Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Physics

Requirements

Simple Requirements

Physics, Applied Physics Concentration (120 hours)

Type
Completion Requirement

Flight Foundation Core - Communication (9 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Physics majors meet the Flight Foundation Quantitative Reasoning and Analysis requirement with MATH 1910.

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least undefined credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Physics majors meet the Flight Foundation Scientific Reasoning with PHYS 2110 and PHYS 2120.

Physics, Applied Physics Concentration Core

Complete ALL of the following Courses:

- PHYS1137 - Frontiers of Physics
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- PHYS3020 - Topics in Modern Physics
- PHYS3021 - Modern Physics Laboratory
- PHYS3060 - PHYS 3060: Mathematical Techniques for Physics
- PHYS3610 - Classical Mechanics
- PHYS4610 - Classical Elect & Magnetism
- PHYS3120 - Statistical Thermal Physics
- PHYS3810 - Quantum Mechanics I
- PHYS4711 - Advanced Experimental Physics

Additional Program Requirements

Complete ALL of the following Courses:

- CHEM1110 - General Chemistry I
- PC2500 - Communicating in the Profess.
- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3470 - Intro/Prob & Stats
- CSC1300 - Intro/Prob Solving-Comp Prog
- CSC1310 - Data Structures and Algorithms

Additional Program Requirements

Science/Engineering Electives (15 hours):

Students in the Applied Physics concentration minor in a technical field or agreed interdisciplinary program (15 hrs.) which includes at least 6 hours of upper division. The minor may be in any of the Natural Sciences disciplines offered in the College of Arts and Sciences (except Physics or Math) or any of the disciplines in the College of Engineering.

Physics Electives

Complete at least 2 of the following courses:

- PHYS3820 - Quantum Mechanics II
  OR PHYS4130 - Computational Physics
  OR PHYS4620 - Classical Elect & Magnetism
  OR PHYS4760 - Senior Thesis

Physics Electives:

Students choose two of the following courses: PHYS 3820, PHYS 4130, PHYS 4620 or PHYS 4760.

Additional Program Requirements

Additional free electives (8 hours) are required to complete 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Physics, Applied Physics Concentration. B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select

- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- MATH1910 - Calculus I

Actual Credits 4

Requirement Select

- PHYS1137 - Frontiers of Physics

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select

- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- PC2500 - Communicating in the Profess.

Actual Credits 3

Requirement Select
- PHYS3020 - Topics in Modern Physics
- **AND** PHYS3021 - Modern Physics Laboratory

Actual Credits 4

Requirement Select
- PHYS3060 - PHYS 3060: Mathematical Techniques for Physics

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Requirement Select
- Science/Engineering Electives (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- PHYS3610 - Classical Mechanics

Actual Credits 3

Requirement Select
- PHYS4610 - Classical Elect & Magnetism

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- PHYS3810 - Quantum Mechanics I

Actual Credits 3

Requirement Select
- PHYS3120 - Statistical Thermal Physics

Actual Credits 3

Requirement Select
- Science/Engineering Electives (6 cr.) (Generic)

Actual Credits 6

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select
- Electives (2 cr.) (Generic)

Actual Credits 2

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- PHYS4711 - Advanced Experimental Physics

Actual Credits 2

Requirement Select
- Science/Engineering Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Physics Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Science/Engineering Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Physics Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- NOTE: Physics Electives: Students choose two courses from the following: PHYS 3820, PHYS 4130, PHYS 4620, or PHYS 4760.
  (Generic)

Actual Credits -

Requirement Select
- NOTE: Students can minor in a Technical Field or agreed interdisciplinary program (15 cr. hrs.) which includes at least 6 cr. hrs. of upper division. The minor may be in any of the Natural Sciences disciplines offered in the College of Arts and Sciences (except Physics or Math), or any of the disciplines in the College of Engineering. (Generic)
  (Generic)

Actual Credits -

PHYS-PPHY - Physics, Pure Physics Concentration, B.S.

Program Overview

Program Long Title
Physics, Pure Physics Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Physics

Requirements

Simple Requirements

Physics, B.S. (120 hours)

Type
Completion Requirement

Flight Foundations Core - Communication (9 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II
- COMM2025 - Fundamentals of Communication
  OR PC2500 - Communicating in the Profess.

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Physics majors meet the Flight Foundations Quantitative Reasoning and Analysis requirement with MATH1910.

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 hours)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Physics majors meet the Flight Foundation Natural Sciences requirement with PHYS 2110 and PHYS 2120.

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Physics majors complete the Flight Foundation Scientific Reasoning requirement with PHYS 2110 and PHYS 2120.

Physics, B.S. Core

Complete ALL of the following Courses:

- PHYS1137 - Frontiers of Physics
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab
- PHYS3020 - Topics in Modern Physics
- PHYS3021 - Modern Physics Laboratory
- PHYS3060 - PHYS 3060: Mathematical Techniques for Physics
- PHYS3610 - Classical Mechanics
- PHYS4610 - Classical Elect & Magnetism
- PHYS3120 - Statistical Thermal Physics
- PHYS3810 - Quantum Mechanics I
- PHYS4620 - Classical Elect & Magnetism
- PHYS3820 - Quantum Mechanics II
- PHYS4710 - Adv Experimental Physics
- PHYS4750 - Scientific Proposal Writing
- PHYS4130 - Computational Physics
- PHYS4760 - Senior Thesis

Additional Program Requirements

Complete ALL of the following Courses:

- MATH1910 - Calculus I
- MATH1920 - Calculus II
- MATH2110 - Calculus III
- MATH2120 - Differential Equations
- MATH3470 - Intro/Prob & Stats
- MATH3810 - Complex Variables
- CHEM1110 - General Chemistry I
- CSC1310 - Data Structures and Algorithms
- CSC1300 - Intro/Prob Solving-Comp Prog
- PC2500 - Communicating in the Profess.
- ELECTIVE - Elective Credit

Additional free electives (10 hours) are required to complete 120 earned hours.

Degree Map

Degree Map Name
Degree Plan - Physics, B.S.

Total Degree Map Credits
120

Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- CHEM1110 - General Chemistry I

Actual Credits 4

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- MATH1910 - Calculus I

Actual Credits 4

Requirement Select
- PHYS1137 - Frontiers of Physics

Actual Credits 1

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- MATH1920 - Calculus II

Actual Credits 4

Requirement Select
- PHYS2110 - PHYS 2110: Calculus-based Physics I with Lab

Actual Credits 4

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- CSC1300 - Intro/Prob Solving-Comp Prog

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- CSC1310 - Data Structures and Algorithms

Actual Credits 4

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- MATH2110 - Calculus III

Actual Credits 4

Requirement Select
- PHYS2120 - PHYS 2120: Calculus-based Physics II with Lab

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	14

Requirement Select
- PC2500 - Communicating in the Profess.

Actual Credits 4

Requirement Select
- MATH2120 - Differential Equations

Actual Credits 3

Requirement Select
- PHYS3020 - Topics in Modern Physics
- **AND** PHYS3021 - Modern Physics Laboratory

Actual Credits 4

Requirement Select
- PHYS3060 - PHYS 3060: Mathematical Techniques for Physics

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- MATH3470 - Intro/Prob & Stats

Actual Credits 3

Requirement Select
- Elective (3 credit hours) (Generic)

Actual Credits 3

Requirement Select
- PHYS3610 - Classical Mechanics

Actual Credits 3

Requirement Select
- PHYS4610 - Classical Elect & Magnetism

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- MATH3810 - Complex Variables

Actual Credits 3

Requirement Select
- PHYS3120 - Statistical Thermal Physics

Actual Credits 3

Requirement Select
- PHYS3810 - Quantum Mechanics I

Actual Credits 3

Requirement Select
- PHYS4620 - Classical Elect & Magnetism

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PHYS3820 - Quantum Mechanics II

Actual Credits 3

Requirement Select
- PHYS4710 - Adv Experimental Physics

Actual Credits 4

Requirement Select
- PHYS4750 - Scientific Proposal Writing

Actual Credits 2

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	16

Requirement Select

- Electives (7 cr.)
  (Generic)

Actual Credits 7

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select

- PHYS4130 - Computational Physics

Actual Credits 3

Requirement Select

- PHYS4760 - Senior Thesis

Actual Credits 3

Courses

Course Information

Course Title
Intro to Modern Astronomy I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ASTR

Course Number
1010

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
3

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
Understanding changes in the sky, including the sun, moon, stars and planets. Development of astronomy from pre-history to the current day. Scale and properties of the solar system. Taught in an integrated lecture/lab style.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Background knowledge of high school Algebra and Geometry.

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Natural Sciences).

Course Information

Course Title
Intro to Modern Astronomy II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ASTR

Course Number
1020

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
3

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
Tools and techniques of astronomy. Properties and life history of stars and galaxies. Introduction to cosmology. Taught in an integrated lecture/lab style.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Background knowledge of high school Algebra and Geometry.

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Natural Sciences).

Course Information

Course Title
Observational Astronomy

Academic Level (Course Level)
Undergraduate

Course Subject Code
ASTR

Course Number
3100

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Course Description
Prerequisite: ASTR 1020 or consent of instructor. Introduction to the observational and computational techniques in astronomy.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
ASTR 1020 or consent of instructor.

Course Information

Course Title
Introduction to Cosmology

Academic Level (Course Level)
Undergraduate

Course Subject Code
ASTR

Course Number
4310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course covers the study of the cosmos as a whole, starting from the fundamental observations, creating a model of the universe, accounting for observations regarding dark matter and the cosmic microwave background, nucleosynthesis, inflation, and structure formation.

College/School
Arts and Sciences

Syllabus
ASTR 4310 Syllabus-new.pdf

Requisites and Restrictions

Prerequisite:
PHYS 2420 and PHYS 2920.

Course Information

Course Title
Stellar Astrophysics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ASTR

Course Number
4320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
In this course, we will cover the key topics of stellar structure, formation and evolution, energy transfer, and interiors. Topics include: timescales, scaling relations, equations of state, radiative transfer, convection, nuclear reactions and rates, white dwarfs, neutron stars, and supernovae. A major focus of this course will be developing intuition of the mathematical expressions that are essential to understanding the dynamical stellar processes.

College/School
Arts and Sciences

Syllabus
ASTR 4320 Syllabus-new.pdf

Requisites and Restrictions

Prerequisite:
PHYS 2420 and PHYS 2920

Course Information

Course Title
Senior Thesis

Academic Level (Course Level)
Undergraduate

Course Subject Code
ASTR

Course Number
4760

Credit Hours

Credit Hours:
3

Lab Hours

Min:
9

Repeatable for Credit:
No

Course Description
The student will execute a research project, write a paper about it, and make an oral presentation. The project may be a continuation of one started in a previous research internship, in which case documentation from the mentor(s) of the internship must be provided. All mentors will be involved in determining the final grade.

College/School
Arts and Sciences

Syllabus
ASTR 4760 syllabus-new.pdf

Requisites and Restrictions

Prerequisite:
ASTR 3100 or consent of instructor.

Course Information

Course Title
Special Topics in Astronomy

Academic Level (Course Level)
Undergraduate

Course Subject Code
ASTR

Course Number
4901

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Repeatable for Credit:
Yes

Course Description
Prerequsite: Consent of Chair and Instructor. (Up to 6 credits may be earned under this course title provided the content is different.) Topics covered will be chose on the basis of student interest and need;.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of Chair and Instructor. (Up to 6 credits may be earned under this course title provided the content is different.)

Course Information

Course Title
Special Topics in Astronomy

Academic Level (Course Level)
Undergraduate

Course Subject Code
ASTR

Course Number
4902

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
Yes

Course Description
Prerequsite: Consent of Chair and Instructor. (Up to 6 credits may be earned under this course title provided the content is different.) Topics covered will be chose on the basis of student interest and need;.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of Chair and Instructor. (Up to 6 credits may be earned under this course title provided the content is different.)

Course Information

Course Title
Special Topics in Astronomy

Academic Level (Course Level)
Undergraduate

Course Subject Code
ASTR

Course Number
4903

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Other Hours

Min:
0

Course Description
Prerequsite: Consent of Chair and Instructor. (Up to 6 credits may be earned under this course title provided the content is different.) Topics covered will be chose on the basis of student interest and need;.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics in Astronomy

Academic Level (Course Level)
Undergraduate

Course Subject Code
ASTR

Course Number
4904

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
2

Repeatable for Credit:
Yes

Course Description
Prerequsite: Consent of Chair and Instructor. (Up to 6 credits may be earned under this course title provided the content is different.) Topics covered will be chose on the basis of student interest and need;.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of Chair and Instructor. (Up to 6 credits may be earned under this course title provided the content is different.)

Course Information

Course Title
Concepts of Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
1090

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
3

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
Selected topics in physics with an emphasis on explaining familiar phenomena. Taught in an integrated lecture/lab style. Note: This course will not count as part of a physics sequence. Credit will not be given for both PHYS 1090 and any of PHYS 2010, PHYS 2020, PHYS 2109, PHYS 2110, PHYS 2111, PHYS 2119, PHYS 2120, PHYS 2121.

College/School
Arts and Sciences

Syllabus
PHYS 1090 Syllabus.pdf, General education new 1090 courses - UCC Feb 2025.docx

Course Information

Course Title
Frontiers of Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
1137

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Course Description
An overview of topics currently at the frontiers of physics

College/School
Arts and Sciences

Course Information

Course Title
Concepts of Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
1310

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
3

Course Description
Selected topics from classical and modern physics with applications to familiar phenomena. This course will not count as part of a physics sequence. Credit will not be given for both PHYS 1310 and any of PHYS 2010, PHYS 2020, PHYS 2109, PHYS 2110, PHYS 2111, PHYS 2119, PHYS 2120, PHYS 2121.

College/School
Arts and Sciences

Course Information

Course Title
Sp Top/Physics & Physics Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
1901

Credit Hours

Credit Hours:
0

Credit Hours:
1

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
2

Course Description
Prerequisites: Consent of chair and instructor. (Up to six credits may be earned under this course title.) Topics covered will be chosen on the basis of student interest and need.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of chair and instructor.

Course Information

Course Title
Sp Top/Physics & Physics Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
1902

Credit Hours

Credit Hours:
0

Credit Hours:
2

Lecture Hours

Min:
0

Max:
1

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisites: Consent of chair and instructor. (Up to six credits may be earned under this course title.) Topics covered will be chosen on the basis of student interest and need.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of chair and instructor.

Course Information

Course Title
Sp Top/Physics & Physics Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
1903

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisites: Consent of chair and instructor. (Up to six credits may be earned under this course title.) Topics covered will be chosen on the basis of student interest and need.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of chair and instructor.

Course Information

Course Title
Sp Top/Physics & Physics Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
1904

Credit Hours

Credit Hours:
0

Credit Hours:
4

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisites: Consent of chair and instructor. (Up to six credits may be earned under this course title.) Topics covered will be chosen on the basis of student interest and need.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of chair and instructor.

Course Information

Course Title
Algebra-based Physics I

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
2010

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
3

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
Basic laws of classical mechanics with elementary applications to familiar phenomena. Taught in an integrated lecture/lab style. A student may not earn credit in both PHYS 2010 and any of PHYS 1310, PHYS 2109, or PHYS 2110.

College/School
Arts and Sciences

Course Information

Course Title
Algebra-based Physics II

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
2020

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
3

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
Basic laws of electromagnetism and light with elementary applications. Taught in an integrated lecture/lab style. A student may not earn credit in both PHYS 2110 and any of PHYS 1310, PHYS 2010, PHYS 2109 and PHYS 2111.
PHYS 2110 offered at TTU is 4 credit hours.
NOTE: PHYS 2110 and PHYS 2120 are offered at ETSU for 5 credits as part of the joint TTU/ETSU BSE program.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 2010.

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Natural Sciences).

Course Information

Course Title
Calculus-based Physics I

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
2109

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to classical mechanics. A student may not earn credit in both PHYS 2109 and any of PHYS 1090, PHYS 1310, PHYS 2010 and PHYS 2110.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1910 or equivalent AP credit for MATH 1910.

PHYS 2110: Calculus-based Physics I with Lab

Course Information

Course Title
Calc-based Physics I with Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
2110

Credit Hours

Credit Hours:
0

Credit Hours:
5

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
No

Course Description
Introduction to classical mechanics. A student may not earn credit in both PHYS 2110 and any of PHYS 1090, PHYS 1310, PHYS 2010, PHYS 2109 and PHYS 2111.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1910 or equivalent AP credit for MATH 1910.

Note:

- Meets Tennessee Technological University Flight Foundations requirement (Scientific Reasoning).

Course Information

Course Title
Calculus-based Physics I Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
2111

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
Experiments in classical mechanics. A student may not earn credit in both PHYS 2111 and PHYS 2110 (w. lab.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
C or better in MATH 1910 or equivalent AP credit for MATH 1910.

Approved General Education Requirement:
♦ Meets Tennessee Technological University and Tennessee Board of Regents minimum degree requirements.

Course Information

Course Title
Gen Physics I Honors Recitat'n

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
2112

Credit Hours

Credit Hours:
0

Lab Hours

Min:
1

Course Description
Corequisite: PHYS 2109 or PHYS 2110. Selected topics to add depth to the understanding of material in PHYS 2109/2110. Honors students can receive honors credit for PHYS 2109/2110 by satisfactorily completing this course and obtaining a grade of A or B in PHYS 2109/2110.

College/School
Arts and Sciences

Requisites and Restrictions

Corequisite:
PHYS 2109 or PHYS 2110.

Course Information

Course Title
Calculus-based Physics II

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
2119

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to classical electromagnetism and optics. A student may not earn credit in both PHYS 2119 and any of PHYS 1090, PHYS 1310, PHYS 2020 and PHYS 2120.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 2109 or PHYS 2110; C or better in MATH 1920 or equivalent AP credit for MATH 1910 and MATH 1920.

PHYS 2120: Calculus-based Physics II with Lab

Course Information

Course Title
Calc-based Physics II with Lab

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
2120

Credit Hours

Credit Hours:
0

Credit Hours:
5

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
6

Repeatable for Credit:
No

Course Description
Introduction to classical electromagnetism and optics with lab. A student may not earn credit in both PHYS 2120 and any of PHYS 1090, PHYS 1310, PHYS 2020, PHYS 2119 and PHYS 2121.
PHYS 2120 offered at TTU is 4 credit hours.
NOTE: PHYS 2110 and PHYS 2120 are offered at ETSU for 5 credits as part of the joint TTU/ETSU BSE program.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 2109 or PHYS 2110; C or better in MATH 1920 or equivalent AP credit for MATH 1910 and MATH 1920.

Note:

- Meets Tennessee Technological University Flight Foundations requirement (Scientific Reasoning).

Course Information

Course Title
Calculus-based Physics Lab II

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
2121

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Course Description
Prerequisite: PHYS 2110 (w. lab) or PHYS 2111, PHYS 2119 (PHYS2119 may be taken concurrently). Experiments in classical electromagnetism and optics. A student may not earn credit in both PHYS 2121 and PHYS 2120 (w. lab).

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 2110 (with lab) or PHYS 2111, PHYS 2119. (PHYS 2119 may be taken concurrently.)

Approved General Education Requirement:
♦ Meets Tennessee Technological University and Tennessee Board of Regents minimum degree requirements.

Course Information

Course Title
Modern Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
2420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 2119 or PHYS 2120. Introduction to modern physics. Topics include special relativity, quantum theory of light, wave nature of matter, Bohr's theory of the atom, quantum mechanics in one dimension. Selected topics from atomic, molecular, solid state, nuclear, and particle physics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 2119 or PHYS 2120.

Course Information

Course Title
Mathematical Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
2920

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 2119 or PHYS 2120 and MATH 2110. Mathematical methods for classical and modern physics. Selected topics from vector analysis, complex analysis and vector spaces, with emphasis on applications to physical systems. (PHYS 2119 or PHYS 2120 and MATH 2110 may be taken concurrently.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 2119 or PHYS 2120, MATH 2110.

Course Information

Course Title
Topics in Modern Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to modern physics. Topics include special relativity, quantum theory of light, wave nature of matter, Bohr's theory of the atom, quantum mechanics in one dimension. Selected topics from atomic, molecular, solid state, nuclear, and particle physics.

College/School
Arts and Sciences

Syllabus
PHYS 3020 syllabus.pdf

Course Information

Course Title
Modern Physics Laboratory

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
3021

Credit Hours

Credit Hours:
1

Lab Hours

Min:
3

Repeatable for Credit:
No

Course Description
The student will perform selected modern physics experiments that are covered in PHYS 3020.

College/School
Arts and Sciences

Syllabus
PHYS 3021 syllabus-new.pdf

PHYS 3060: Mathematical Techniques for Physics

Course Information

Course Title
Math Techniques for Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
3060

Credit Hours

Credit Hours:
4

Lecture Hours

Min:
4

Repeatable for Credit:
No

Course Description
Mathematical techniques for classical and modern physics with emphasis on applications to physical systems. Selected topics from vector analysis, complex analysis, vector spaces and partial differential equations.

College/School
Arts and Sciences

Syllabus
PHYS 3060 syllabus-new.pdf

Requisites and Restrictions

Prerequisite:
PHYS 2119 or PHYS 2120 and MATH 2110

Course Information

Course Title
Statistical Thermal Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
3120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 2420, PHYS 2920, MATH 2120, and CSC 1310. Development of the laws of thermodynamics using statistical mechanics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 2420, PHYS 2920, MATH 2120 and CSC 1310.

Course Information

Course Title
Classical Mechanics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
3610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 2920, MATH 2120, and CSC 1300. Theoretical development of classical mechanics, including Newtonian, Lagrangian, and Hamiltonian descriptions.

College/School
Arts and Sciences

Course Information

Course Title
Quantum Mechanics I

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
3810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 2420, PHYS 2920, MATH 4510 (5510), and CSC 1300. (MATH 4510 (5510) may be taken concurrently). Introduction to principles of quantum mechanics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 2420, PHYS 2920, MATH 4510 (5510), and CSC 1300. (MATH 4510 (5510) may be taken concurrently).

Course Information

Course Title
Quantum Mechanics II

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
3820

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 3810. Application of quantum mechanics to simple systems.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 3810.

Course Information

Course Title
Advanced Modern Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 3820. Applications of quantum mechanics to selected topics from atomic physics, molecular physics, solid state physics, nuclear and particle physics, and astrophysics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 3820.

Course Information

Course Title
Computational Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 3810 and CSC 1310. Computational techniques used in physics. Numerical techniques and computational algorithms. Random numbers and Monte Carlo techniques. Errors and uncertainites in computation. Applications of these techniques to classical and modern physics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 3810 and CSC 1310.

Course Information

Course Title
Classical Elect & Magnetism

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 2119 or PHYS 2120, PHYS 2920, MATH 4510 (5510), and CSC 1300. (MATH 4510 (5510) may be taken concurrently). Theory of electrostatics, electrodynamics, Maxwell's Equations, and boundary value problems.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 2119 or PHYS 2120, PHYS 2920, MATH 4510 (5510) and CSC 1300. (MATH 4510 (5510) may be taken concurrently.)

Course Information

Course Title
Classical Elect & Magnetism

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: PHYS 4610 and PHYS 2420 (PHYS 2420 may be taken concurrently.) Applications of Maxwell's Equations to electromagnetic waves and other phenomena. Relativistic electrodynamics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 4610 and PHYS 2420. (PHYS 2420 may be taken concurrently.)

Course Information

Course Title
Adv Experimental Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4710

Credit Hours

Credit Hours:
4

Lab Hours

Min:
8

Course Description
Prerequisite: Consent of instructor. The student will perform selected experiments in classical and modern physics. Emphasis will be placed on computer-based data analysis and development of appropriate oral and written presentation techniques.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Advanced Experimental Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4711

Credit Hours

Credit Hours:
2

Lab Hours

Min:
4

Course Description
Prerequisite: Consent of instructor. The student will perform selected experiments in classical and modern physics. Emphasis will be placed on computer-based data analysis and development of appropriate oral and written presentation techniques.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Research Planning

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4730

Credit Hours

Credit Hours:
1

Lab Hours

Min:
2

Course Description
Prerequisite: PHYS 4710 or 4711 (may be taken concurrently). The student will prepare and submit a detailed proposal for a research project to be done in a later semester in the course 4740 (Research). The project may be a continuation of one started in a previous research internship, in which case documentation from the mentor(s) of the internship must be provided.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 4710 or PHYS 4711 (may be taken concurrently).

Course Information

Course Title
Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4740

Credit Hours

Credit Hours:
2

Lab Hours

Min:
4

Course Description
Prerequisite: PHYS 4730. The student will execute a research project, write a paper about it, and make an oral presentation. The project may be a continuation of one started in a previous research internship, in which case documentation from the mentor(s) of the internship must be provided. All mentors will be involved in determining the final grade.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PHYS 4730.

Course Information

Course Title
Scientific Proposal Writing

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4750

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
The student will prepare and submit a detailed proposal for a research project to be done in a later semester in the course 4760 (Senior Thesis Lab). The project may be a continuation of one started in a previous research internship, in which case documentation from the mentor(s) of the internship must be provided.

College/School
Arts and Sciences

Syllabus
PHYS 4750 syllabus.pdf

Requisites and Restrictions

Prerequisite:
PHYS 4710 or 4711 (may be taken concurrently).

Course Information

Course Title
Senior Thesis

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4760

Credit Hours

Credit Hours:
3

Lab Hours

Min:
9

Repeatable for Credit:
No

Course Description
The student will execute a research project, write a paper about it, and make an oral presentation. The project may be a continuation of one started in a previous research internship, in which case documentation from the mentor(s) of the internship must be provided. All mentors will be involved in determining the final grade.

College/School
Arts and Sciences

Syllabus
PHYS 4760 syllabus-new.pdf

Requisites and Restrictions

Prerequisite:
PHYS 4750 or consent of instructor.

Course Information

Course Title
Selected Topics in Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4901

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of Instructor. Topics covered will be chosen on the basis of student interest and need. Course may be taken for credit more than once as long as the topic is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Selected Topics in Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4902

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of Instructor. Topics covered will be chosen on the basis of student interest and need. Course may be taken for credit more than once as long as the topic is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Selected Topics in Physics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHYS

Course Number
4903

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of Instructor. Topics covered will be chosen on the basis of student interest and need. Course may be taken for credit more than once as long as the topic is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Professional Studies Department

The Professional Studies Program is committed to serving and providing traditional and non-traditional students with an intellectually engaging and effective undergraduate and graduate educational experience utilizing technology through on-ground, hybrid, and online delivery systems as they enhance their knowledge, analytical abilities, critical thinking, and communication skills for upward mobility in their professional field.

Bachelor of Professional Studies (BPS)

The Bachelor of Science in Professional Studies, (120 credit hours) prepares students for management and leadership positions in the fields of Information Technology, Organizational Leadership, International Organizational Leadership, or Health Administration.

- **Information Technology** is designed to give students an overview of the IT field and to develop proficiencies in management skills as they seek to enhance their marketability in the workplace. https://www.tntech.edu/cis/sps/bachelors/infotech.php
- **Organizational Leadership** is designed to facilitate the understanding of the nature of organizations and the fundamentals of leadership. https://www.tntech.edu/cis/sps/bachelors/orglead.php
- **International Organizational Leadership** is designed to meet the demands of leadership across geographies, business structures, and cultures. https://www.tntech.edu/cis/sps/bachelors/intlorganiz.php

- **Health Administration** is designed to prepare individuals for an administrative career in the healthcare field. https://www.tntech.edu/cis/sps/bachelors/healthadmin.php

Please note that each concentration consists of 21 hours of core requirements and 18 hours directly related to your chosen concentration.

Master of Professional Studies (MPS)

The 30-hour MPS degree specializations provide you with an opportunity to advance in your chosen career path as it encompasses business, technology, and human development strategies while teaching leadership skills and capabilities, stimulating curiosity, and creating an adaptive background necessary for shaping the direction and future of organizations. The MPS program has six concentrations areas:

- **Strategic Leadership** prepares you to lead and adapt in today's rapidly changing professional environment. https://www.tntech.edu/cis/sps/masters/strategic.php
- **Human Resources Leadership** prepares you to expand your career opportunities in key management roles in the field of human resources. https://www.tntech.edu/cis/sps/masters/humanresource.php
- **Training & Development** prepares you to manage, deliver, and assess on-site training programs. https://www.tntech.edu/cis/sps/masters/training.php
- **Healthcare Administration** prepares you for a rewarding and challenging career dedicated to the vital role of enhancing the quality of care, reducing health care costs and addressing health care issues. https://www.tntech.edu/cis/sps/masters/healthcare.php
- **TESOL** can give you the skills and credentials needed to either teach English abroad or to teach second language adult learners in the U.S. (This program is NOT for those planning to teach ESL in public schools within the U.S.) https://www.tntech.edu/cis/sps/masters/tesol.php
- **Public Safety** can help you secure a career in homeland security, emergency management, law enforcement, corrections, military, federal agencies and more. https://www.tntech.edu/cis/sps/masters/publicsafety.php
- **Corporate Communication** prepares you to take a leading role in the improvement and facilitation of an organization's communication channels, whether that is through designing and implementing initiatives aimed at improving employee engagement, team building, and leadership training or by coordinating teams from different departments across the organization to complete projects.
- **Media and Strategic Communication** prepares you for a leadership role in planning communication strategy, designing messages, and developing media content to help inform the public and build relationships between organizations and a variety of audiences, both inside and outside the organization.

Please note that each program consists of 9 hours of core requirements, 18 hours directly related to your chosen concentration, and a 3-hour culminating project.

Programs

PRST-DTP - Professional Studies, Desktop Publishing Concentration, B.S.

Program Overview

Program Long Title
Professional Studies, Desktop Publishing Concentration, B.S.

College/School
Emerging and Integrative Studies

Department(s)
Professional Studies

Requirements

Simple Requirements

Professional Studies, Desktop Publishing Concentration, B.S. (120 hours)

Type
Completion Requirement

Flight Foundations General Education Core (41 hours)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication
- Scientific Reasoning (FFSR)
- Quantitative Reasoning and Analysis (FFQR)
- Social and Behavioral Sciences (GEDS)
- Financial Literacy or Digital Literacy (FFDL)
- Historical Foundations (FFHF)
- Humanities/Cultural Expression (FFHC)

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
3. Six credit hours are required to meet the Humanities and Cultural Expression requirement.
4. All students must complete six hours of Historical Foundaitons except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Professional Core (18 hours)

Earn at least 18 credits from the following:

- PRST/Professional Core (18 hours)-DTP Conc.

Select 6 courses from the approved list (18 hours).

Concentration Core (18 hours)

Earn at least 18 credits from the following:

- PRST/Desktop Publishing Concentration

1. Select 6 courses from the approved list (18 hours).
2. PRST 3110 is a prerequisite to PRST 4110.

Electives (40 hours)

Complete ALL of the following Courses:

- PSY1030 - Introduction to Psychology
- SOC1010 - Intro to Sociology
- PRST4995 - Culminating Project
- LIST4113 - PRST/LIST Internship
  OR ELECUD - Upper Division Elective
- ELECUD - Upper Division Elective

Students will complete 34 hours of any level electives and six (6) hours of upper division (3000-4000 level) electives.

Degree Map

Degree Map Name
Degree Plan - Professional Studies, Desktop Publishing Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Electives (2 cr.)
  (Generic)

Actual Credits 2

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Electives (5 cr.)
  (Generic)

Actual Credits 5

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- PRST/Professional Core (18 hours)-DTP Conc.

Actual Credits 12

Requirement Select
- PRST/Desktop Publishing Concentration

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- PRST/Professional Core (18 hours)-DTP Conc.

Actual Credits 6

Requirement Select
- Electives (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- Electives (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- PRST/Desktop Publishing Concentration

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- PRST/Desktop Publishing Concentration

Actual Credits 3

Requirement Select
- PRST/Desktop Publishing Concentration

Actual Credits 3

Requirement Select
- PRST/Desktop Publishing Concentration

Actual Credits 3

Requirement Select
- PRST/Desktop Publishing Concentration

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- PRST4995 - Culminating Project

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Upper Division Elective (3 cr.)
  (Generic)
  OR
- LIST4113 - PRST/LIST Internship
  (Generic)

Actual Credits 3

Requirement Select
- Upper Division Electives (3 cr) or Internship (3 cr)
  (Generic)

Actual Credits 3

PRST-HADM - Professional Studies, Health Administration Concentration, B.S.

Program Overview

Program Long Title
Professional Studies, Health Administration Concentration, B.S.

College/School
Emerging and Integrative Studies

Department(s)
Professional Studies

Requirements

Simple Requirements

Professional Studies, Health Administration Concentration, B.S. (120 hours)

Type
Completion Requirement

Flight Foundations General Education Requirements (41 hours)

Complete ALL of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)
- Humanities/Cultural Expression (FFHC)
- Historical Foundations (FFHF)
- Social and Behavioral Sciences (GEDS)
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication
- Scientific Reasoning (FFSR)
- Financial Literacy or Digital Literacy (FFDL)

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
3. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.
4. **The minimum credits required in each Flight Foundations category are as follows: Quantitative Reasoning and Analysis - 3 credits; Humanities and Cultural Expression - 6 credits; Historical Foundations - 6 credits; Social and Behavioral Sciences - 6 credits; Communication - 9 credits; Scientific Reasoning - 8 credits; and Financial or Digital Literacy - 3 credits.**

Professional Studies, Health Administration Concentration

Complete ALL of the following Courses:
- PSY1030 - Introduction to Psychology

- SOC1010 - Intro to Sociology
- LIST4995 - Culminating Project
  OR PRST4995 - Culminating Project
- LIST4113 - PRST/LIST Internship
  OR ELECUD - Upper Division Elective
- ELECUD - Upper Division Elective

Addition Requirements:

Electives (34 credits)

Complete ALL of the following Course Sets:

- PRST/Professional Core (21 hours)
- PRST/Health Administration Concentration

Degree Map

Degree Map Name
Degree Plan - Professional Studies, Health Administration Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Elective (1 cr.)
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- PC2500 - Communicating in the Profess.
  OR
- COMM2025 - Fundamentals of Communication

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- PRST/Professional Core (21 hours)

Actual Credits 9

Requirement Select
- PRST/Health Administration Concentration

Actual Credits 3

Requirement Select
- Elective (3 credits)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- PRST/Professional Core (21 hours)

Actual Credits 6

Requirement Select
- PRST/Health Administration Concentration

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- PRST/Professional Core (21 hours)

Actual Credits 6

Requirement Select
- PRST/Health Administration Concentration

Actual Credits 9

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- LIST4995 - Culminating Project
  OR
- PRST4995 - Culminating Project

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Upper Division Elective (3 cr.)
  (Generic)
  OR
- LIST4113 - PRST/LIST Internship

Actual Credits 3

Requirement Select
- Upper Division Elective (3 cr.) or Internship (3 cr.)
  (Generic)

Actual Credits 3

PRST-HADM - Professional Studies, Health Administration Concentration, B.S.

Program Overview

Program Long Title
Professional Studies, Health Administration Concentration, B.S.

College/School
Emerging and Integrative Studies

Department(s)
Professional Studies

Requirements

Simple Requirements

Professional Studies, Health Administration Concentration, B. S. (120 hours0

Type
Completion Requirement

Flight Foundations General Education Core (41 cr.)

Complete ALL of the following Course Sets:
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication
- Quantitative Reasoning and Analysis (FFQR)
- Historical Foundations (FFHF)
- Humanities/Cultural Expression (FFHC)
- Social and Behavioral Sciences (GEDS)
- Scientific Reasoning (FFSR)
- Financial Literacy or Digital Literacy (FFDL)

Professional Studies, Health Administration Concentration

Complete ALL of the following Course Sets:
- PRST/Professional Core (21 hours)
- PRST/Health Administration Concentration

Additional Requirements

Complete ALL of the following Courses:
- PSY1030 - Introduction to Psychology
- SOC1010 - Intro to Sociology
- ELECTIVE - Elective Credit
- LIST4995 - Culminating Project
  OR PRST4995 - Culminating Project
- LIST4113 - PRST/LIST Internship
  OR ELECUD - Upper Division Elective
- ELECUD - Upper Division Elective

Additional Requirements:

Electives (34 credits)

Upper Division electives (3 or 6)

Degree Map

Degree Map Name
Degree Plan - Professional Studies, Health Administration Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Elective (1 cr.)
  (Generic)
  OR
- UNIV1020 - First-Year Connections

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- PRST/Professional Core (21 hours)

Actual Credits 3

Requirement Select
- PRST/Professional Core (21 hours)

Actual Credits 3

Requirement Select
- PRST/Professional Core (21 hours)

Actual Credits 3

Requirement Select
- PRST/Health Administration Concentration

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- PRST/Professional Core (21 hours)

Actual Credits 3

Requirement Select
- PRST/Professional Core (21 hours)

Actual Credits 3

Requirement Select
- PRST/Health Administration Concentration

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- PRST/Health Administration Concentration

Actual Credits 3

Requirement Select
- PRST/Health Administration Concentration

Actual Credits 3

Requirement Select
- PRST/Health Administration Concentration

Actual Credits 3

Requirement Select
- PRST/Professional Core (21 hours)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- LIST4995 - Culminating Project
  OR
- PRST4995 - Culminating Project

Actual Credits 3

Requirement Select
- PRST/Health Administration Concentration

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

PRST-INTE - Professional Studies, Information Technology Concentration, B.S.

Program Overview

Program Long Title
Professional Studies, Information Technology Concentration, B.S.

College/School
Emerging and Integrative Studies

Department(s)
Professional Studies

Requirements

Simple Requirements

Professional Studies, Information Technology Concentration, B.S. (120 hours)

Type
Completion Requirement

Flight Foundations General Education Requirements (41 hours)

Complete ALL of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)
- Humanities/Cultural Expression (FFHC)
- Historical Foundations (FFHF)
- Social and Behavioral Sciences (GEDS)
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication
- Scientific Reasoning (FFSR)
- Financial Literacy or Digital Literacy (FFDL)

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
3. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.
4. **The minimum credits required in each Flight Foundations category are as follows: Quantitative Reasoning and Analysis - 3 credits; Humanities and Cultural Expression - 6 credits; Historical Foundations - 6 credits; Social and Behavioral Sciences - 6 credits; Communication - 9 credits; Scientific Reasoning - 8 credits; and Financial or Digital Literacy - 3 credits.**

Professional Studies, Information Technology Concentration

Complete ALL of the following Courses:
- ELECTIVE - Elective Credit

- LIST4995 - Culminating Project
  OR PRST4995 - Culminating Project
- LIST4113 - PRST/LIST Internship
  OR ELECUD - Upper Division Elective
- ELECUD - Upper Division Elective
- PSY1030 - Introduction to Psychology
- SOC1010 - Intro to Sociology

Electives (34 credits)

Professonal Studies Core

Complete ALL of the following Course Sets:

- PRST/Professional Core (21 hours)
- PRST/Information Technology Concentration

Degree Map

Degree Map Name
Professional Studies, Information Technology Concentration, B.S. (120 hours)
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Elective (1 cr.)
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select

- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select

- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select

- PRST/Professional Core (21 hours)

Actual Credits 9

Requirement Select

- PRST/Information Technology Concentration

Actual Credits 3

Requirement Select

- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select

- PRST/Professional Core (21 hours)

Actual Credits 6

Requirement Select

- PRST/Information Technology Concentration

Actual Credits 3

Requirement Select

- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- PRST/Professional Core (21 hours)

Actual Credits 6

Requirement Select

- PRST/Information Technology Concentration

Actual Credits 9

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- LIST4995 - Culminating Project
  OR
- PRST4995 - Culminating Project

Actual Credits 3

Requirement Select

- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select

- Upper Division (3000-4000 level) Elective (3 cr.)
  (Generic)
  OR
- LIST4113 - PRST/LIST Internship

Actual Credits 3

Requirement Select

- Upper Division (3000-4000 level) Elective or Internship (3 cr.)
  (Generic)

Actual Credits 3

PRST-IOLE - Professional Studies, International Organizational Leadership Concentration, B.S.

Program Overview

Program Long Title
Professional Studies, International Organizational Leadership Concentration, B.S.

College/School
Emerging and Integrative Studies

Department(s)
Professional Studies

Requirements

Simple Requirements

The Professional Studies Program is committed to serving and providing traditional and non-traditional students with an intellectually engaging and effective undergraduate and graduate educational experience utilizing technology through on-ground, hybrid, and online delivery systems as they enhance their knowledge, analytical abilities, critical thinking, and communication skills for upward mobility in their professional field. Bachelor of Professional Studies (BPS) The Bachelor of Science in Professional Studies, (120 credit hours) prepares students for management and leadership positions in the fields of Information Technology, Organizational Leadership, International Organizational Leadership, or Health Administration.

International Organizational Leadership is designed to meet the demands of leadership across geographies, business structures, and cultures. http://www.tnecampus.org/programs/9 35/courses

Please note that each concentration consists of 21 hours of core requirements and 18 hours directly related to your chosen concentration.

Professional Studies, International Organizational Leadership Conc., B.S. (120 hours)

Type
Completion Requirement

Flight Foundations General Education Requirements (41 hours)

Complete ALL of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)
- Humanities/Cultural Expression (FFHC)
- Historical Foundations (FFHF)
- Social and Behavioral Sciences (GEDS)
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication
- Scientific Reasoning (FFSR)
- Financial Literacy or Digital Literacy (FFDL)

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
3. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.
4. **The minimum credits required in each Flight Foundations category are as follows: Quantitative Reasoning and Analysis - 3 credits; Humanities and Cultural Expression - 6 credits; Historical Foundations - 6 credits; Social and Behavioral Sciences - 6 credits; Communication - 9 credits; Scientific Reasoning - 8 credits; and Financial or Digital Literacy - 3 credits.**

Professional Studies, International Organizational Leadership

Complete ALL of the following Courses:

- ELECTIVE - Elective Credit
- LIST4113 - PRST/LIST Internship
  OR ELECUD - Upper Division Elective
- ELECUD - Upper Division Elective
- LIST4995 - Culminating Project
  OR PRST4995 - Culminating Project
- PSY1030 - Introduction to Psychology
- SOC1010 - Intro to Sociology

Electives (34 credits)

Professional Studies, International Organizational Leadership

Complete ALL of the following Course Sets:

- PRST/Professional Core (21 hours)

Additional Requirements:

International Organizational Leadership (INTE) Concentration Area (15 credits)

Degree Map

Degree Map Name
Professional Studies, International Organizational Leadership Concentration, B.S. (120 hours)
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Elective credit (1 cr.)
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- LIST4093 - Special Topics & Leadership
  OR
- MGMT3610 - Principles of Management
  OR
- PADM3601 - Public Administration
  OR
- TECH4381 - Principles of Supervision

Actual Credits 3

Requirement Select
- PADM4226 - Intro Nonprofit Organization
  OR
- PM4120 - Org Theory/Behavior

Actual Credits 3

Requirement Select
- COMM3010 - Integrated Corporate Comm
  OR
- LIST4710 - Workplace Conflict/Resolution

Actual Credits 3

Requirement Select
- BMGT3600 - International Management

Actual Credits 3

Requirement Select

- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select

- PBRL4410 - Public Relations Research
  OR
- SOAA3350 - Social Statistics
  OR
- SOCI4510 - Intro to Social Research

Actual Credits 3

Requirement Select

- ENGL3134 - Computer/Writing/Lit
  OR
- ENGL3250 - Professional Comm I
  OR
- PBRL3421 - Public Relations Writing
  OR
- BMGT3720 - Business Communications I

Actual Credits 3

Requirement Select

- POLI4350 - International Law

Actual Credits 3

Requirement Select

- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- PS3510 - Internatl Political Economy

Actual Credits 3

Requirement Select

- COMM3560 - Intercultural Communication

Actual Credits 3

Requirement Select

- POLS4508 - Theories Internatl Relations

Actual Credits 3

Requirement Select

- ENGL3134 - Computer/Writing/Lit
  OR
- ENGL3250 - Professional Comm I
  OR
- PBRL3421 - Public Relations Writing
  OR
- BMGT3720 - Business Communications I

Actual Credits 3

Requirement Select

- JOUR4712 - Mass Media and Cultures
  OR
- POLI4350 - International Law
  OR
- PS3510 - Internatl Political Economy
  OR
- SPAN3550 - Latin America:Country & People

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- LIST4995 - Culminating Project
  OR
- PRST4995 - Culminating Project

Actual Credits 3

Requirement Select

- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select

- Upper Division (3000-4000 level) Elective
  (Generic)
  OR
- LIST4113 - PRST/LIST Internship

Actual Credits 3

Requirement Select

- Upper Division (3000-4000 level) Elective or Internship
  (Generic)

Actual Credits 3

PRST-ORLE - Professional Studies, Organizational Leadership Concentration, B.S.

Program Overview

Program Long Title
Professional Studies, Organizational Leadership Concentration, B.S.

College/School
Emerging and Integrative Studies

Department(s)
Professional Studies

Requirements

Simple Requirements

Professional Studies, Organizational Leadership Concentration, B.S. (120 hours)

Type
Completion Requirement

Flight Foundations General Education Requirements (41 hours)

Complete ALL of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)
- Humanities/Cultural Expression (FFHC)
- Historical Foundations (FFHF)
- Social and Behavioral Sciences (GEDS)
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication
- Scientific Reasoning (FFSR)
- Financial Literacy or Digital Literacy (FFDL)

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
3. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.
4. **The minimum credits required in each Flight Foundations category are as follows: Quantitative Reasoning and Analysis - 3 credits; Humanities and Cultural Expression - 6 credits; Historical Foundations - 6 credits; Social and Behavioral Sciences - 6 credits; Communication - 9 credits; Scientific Reasoning - 8 credits; and Financial or Digital Literacy - 3 credits.**

Professional Studies, Organizational Leadership Concentration

Complete ALL of the following Courses:

- PSY1030 - Introduction to Psychology
- SOC1010 - Intro to Sociology
- LIST4113 - PRST/LIST Internship
  OR ELECUD - Upper Division Elective
- ELECUD - Upper Division Elective
- LIST4995 - Culminating Project
  OR PRST4995 - Culminating Project

Additional Requirements:

Electives - 36 credits

Professional Studies Core

Complete ALL of the following Course Sets:

- PRST/Professional Core (21 hours)
- PRST/Organizational Leadership Concentration

Additional Comments:
This concentration focuses on the development of leadership and management skills that are essential across private industry, public service, and nonprofit sectors. Students strengthen their abilities in communication, critical thinking, decision-making, and problem-solving while examining the principles that guide effective leadership in a variety of organizational contexts. The program emphasizes practical strategies for motivating teams, managing resources, and navigating organizational challenges. Graduates are prepared to step into leadership roles and contribute meaningfully to organizations of all types and sizes.

Degree Map

Degree Map Name
Professional Studies, Organizational Leadership Concentration, B.S. (120 hours)
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Elective (1 cr.)
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- PRST/Professional Core (21 hours)

Actual Credits 9

Requirement Select
- PRST/Organizational Leadership Concentration

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- PRST/Professional Core (21 hours)

Actual Credits 6

Requirement Select
- PRST/Organizational Leadership Concentration

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- PRST/Professional Core (21 hours)

Actual Credits 6

Requirement Select

- PRST/Organizational Leadership Concentration

Actual Credits 9

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- LIST4995 - Culminating Project
  OR
- PRST4995 - Culminating Project

Actual Credits 3

Requirement Select

- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select

- LIST4113 - PRST/LIST Internship
  OR
- Upper Division (3000-4000 level) Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- Upper Division (3000-4000 level) Elective or Internship (3 cr.)
  (Generic)

Actual Credits 3

PRST-PSF - Professional Studies, Public Safety Concentration, B.S.

Program Overview

Program Long Title

Professional Studies, Public Safety Concentration, B.S.

College/School

Emerging and Integrative Studies

Department(s)

Professional Studies

Requirements

Simple Requirements

Professional Studies, Public Safety Concentration, B.S. (120 hours)

Type
Completion Requirement

Flight Foundation Core (41 hours)

Complete ALL of the following Course Sets:

- Financial Literacy or Digital Literacy (FFDL)
- Social and Behavioral Sciences (GEDS)
- Humanities/Cultural Expression (FFHC)
- Scientific Reasoning (FFSR)
- Quantitative Reasoning and Analysis (FFQR)
- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication
- Historical Foundations (FFHF)

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.
3. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.
4. **The minimum credits required in each Flight Foundations category are as follows: Quantitative Reasoning and Analysis - 3 credits; Humanities and Cultural Expression - 6 credits; Historical Foundations - 6 credits; Social and Behavioral Sciences - 6 credits; Communication - 9 credits; Scientific Reasoning - 8 credits; and Financial or Digital Literacy - 3 credits.**

Professional Core (18 hours)

Earn at least 18 credits from the following:

- PRST/Professional Core (18 hours)- PSF Conc.

Select 6 courses from the approved list (18 hours)

Concentration Core (18 hours)

Earn at least 18 credits from the following:

- PRST/Public Safety Concentration

Select 6 courses from the approved list (18 hours).

Culminating Project

Complete ALL of the following Courses:

- PRST4995 - Culminating Project
- LIST4113 - PRST/LIST Internship
  OR ELECUD - Upper Division Elective
- ELECUD - Upper Division Elective
- PSY1030 - Introduction to Psychology
- SOC1010 - Intro to Sociology

Electives (40 hours required)

Students will complete 34 hours of electives at any level, and six (6) hours of upper division (3000-4000 level) electives.

Degree Map

Degree Map Name
Degree Plan - Professional Studies, Public Safety Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	15

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Electives (2 cr.)
  (Generic)

Actual Credits 2

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Electives (5 cr.)
  (Generic)

Actual Credits 5

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select

- PSY1030 - Introduction to Psychology
  OR
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select

- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select

- PRST/Professional Core (18 hours)- PSF Conc.

Actual Credits 12

Requirement Select

- PRST/Public Safety Concentration

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select

- PRST/Professional Core (18 hours)- PSF Conc.

Actual Credits 3

Requirement Select

- PRST/Public Safety Concentration

Actual Credits 6

Requirement Select

- Electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- PRST/Professional Core (18 hours)- PSF Conc.

Actual Credits 3

Requirement Select

- PRST/Public Safety Concentration

Actual Credits 9

Requirement Select

- Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- PRST4995 - Culminating Project

Actual Credits 3

Requirement Select

- Upper Division Elective (3 cr.)
  (Generic)
  OR
- LIST4113 - PRST/LIST Internship

Actual Credits 3

Requirement Select

- Upper Division Elective (3 cr.) or Internship (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- Electives (6 cr.)
  (Generic)

Actual Credits 6

Courses

The Canva Toolkit: Keys to Digital Designing Success

Course Information

Course Title
The Canva Toolkit

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
1100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course will teach students the fundamental Canva skills like image editing, using AI-powered tools, and creating brand kits needed to create professional-level designs for both education and career purposes.

College/School
Emerging and Integrative Studies

Syllabus
PRST 1100.docx

Digital Design: Publishing in Action

Course Information

Course Title
Dig Dsgn: Publishing in Action

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
1110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The course will teach students basic digital design tools used by professionals in that field. They will also explore careers in digital art and design and learn the basic techniques of developing an online portfolio.

College/School
Emerging and Integrative Studies

Syllabus
PRST 1110.docx

Digital Design in Motion: Publishing Techniques

Course Information

Course Title
Dig. Dsgn in Motion: Pub. Tech

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
2110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course will teach students the foundational knowledge of publishing and post-press processes and digital image types and will allow them to more thoroughly explore potential careers in digital and graphic design.

College/School
Emerging and Integrative Studies

Syllabus
PRST 2110.docx

Design Foundations: From Idea to Layout

Course Information

Course Title
Dsgn Found: From Idea - Layout

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
3110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course will teach students basic skills within the Adobe Creative Suite (Photoshop, Illustrator, and InDesign) as they create high-quality digital print materials and designs. The course will also provide editing and copy-writing skills needed in developing professional-quality publications and designs.

College/School
Emerging and Integrative Studies

Syllabus
PRST 3110.docx

Course Information

Course Title
Designing for Social Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
3120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course will teach students to create professional-quality social media posts through accepted digital design principles. The course will culminate in an active social media site and several well-designed posts.

College/School
Emerging and Integrative Studies

Syllabus
PRST 3120.docx

Speaking Their Language: Building Literacy in the Tools of Digital Design

Course Information

Course Title
Speaking Their Language

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
3130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course introduces students to the digital tools, platforms, and visual forms that shape everyday communication. The course focuses on how digital design functions across a variety of contexts and how individuals interact with and make sense of visual information in digital environments. Through hands-on exploration and discussion, students develop a practical understanding o f digital tools while considering broader questions about technology's role in contemporary life. Nor prior design experience is required.

College/School
Emerging and Integrative Studies

Syllabus
3130_Syllabus_Final Submission.pdf

Understanding the Development of Human Behavior to Effectively Navigate Group Dynamics

Course Information

Course Title
Dev/Components Human Behavior

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
3140

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
The course examines the development of human behavior in terms of societal influences. Students will explore how human behavior influences group dynamics and learn the skills to successfully navigate them.

College/School
Emerging and Integrative Studies

Syllabus
PRST 3140_Human Behavior.pdf

Course Information

Course Title
Introduction to Public Health

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
3230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course introduces the field of public health and the core sciences that are essential to public health practice. Students will learn about the history of public health, the different disciplines that contribute to public health, and the core functions and essential
services of public health. The course will also focus on the social determinants of health, and how they can lead to health disparities. Students will learn about the historical development of social constructs that lead to health disparities, and how to identify and analyze these disparities in large populations.

College/School
Emerging and Integrative Studies

Syllabus
PRST 3230 Intro to Public Health_Recreated.pdf

Leadership for Pre-Traumatic Events

Course Information

Course Title
Leadershp/Pre-Traumatic Events

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is designed to prepare professionals to enter tragic situations while maintaining their humanity. The course readings will focus on the biological responses that one should expect when confronted with traumatic circumstances. Course videos will include interviews with current professionals who will share their professional exposure to traumatic environments, and additionally the leadership wisdom that they have gained to help prepare and lead women and men under their charge. The focus of this course is not on tactics or strategies for specific professions or situations, rather the student will gain broad knowledge for developing the interpersonal and intrapersonal skills that will enable students to be ready to lead when the unexpected and unthinkable happens.

College/School
Emerging and Integrative Studies

Syllabus
PRST 3500 Leadership and Preparedness for Traumatic Events_Recreated.pdf

Leadership for Post-Traumatic Events

Course Information

Course Title
Leadership Post-Traum Events

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
3510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course is designed to prepare leaders to lead when the world goes awry. We live in a world marred by traumatic incidents of all kinds. Not only will we lead others who have been through traumatic events, but we will also experience our own moments of trauma in life. The first part of the course will dive deep into the impacts of trauma on the human mind and body. We will learn about historical attitudes regarding trauma and then unpack what today's science reveals about best treatment practices. Once we have established a strong baseline knowledge of trauma, we will dig into leadership principles that will help us to lead ourselves, our families, and our teams on the other side of trauma.

College/School
Emerging and Integrative Studies

Syllabus
PRST 3510 Leadership Post Trauma_Recreated.pdf

Course Information

Course Title
Career Foundations

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
3800

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: COMM 2025. This course is designed for undergraduate students preparing to enter the workforce or explore future career paths. You'll engage in self-assessment activities to identify your strengths and career interests, develop polished application materials like resumes and cover letters, and build a professional online presence through LinkedIn. You'll also research potential employers, learn strategies for workplace success, and assemble a career portfolio that showcases your readiness for the next step.

College/School
Emerging and Integrative Studies

Syllabus
PRST3800_Career Foundations_Syllabus_MLN.pdf

Requisites and Restrictions

Prerequisite:
COMM 2025

Note:
Junior or Senior standing.

Website Portfolio and Advanced Digital Publishing

Course Information

Course Title
Website Portfolio/Adv Dig Pub

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course will teach students more advanced Adobe Creative Suite skills and the techniques necessary to develop an online portfolio and pass the Adobe Certified Professional in Design certificate test.

College/School
Emerging and Integrative Studies

Syllabus
PRST 4110.docx

Requisites and Restrictions

Prerequisite:
PRST 3110

Course Information

Course Title
Healthcare Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: MATH 1530 or permission of the instructor. This course builds upon the student's liberal arts background and basic healthcare knowledge, utilizing systematic inquiry and analysis by reinforcing the problem-solving method to utilize research in the improvement of healthcare practice to affect positive outcomes. The course focuses on the fundamentals of the research process namely research ethics, qualitative research methods and non-experimental methods. Students are also taught how to use statistics to answer questions and how to use this skill to aid them in the review/interpretation of healthcare literature and healthcare research. This course meets the requirements of a basic research course for those intending to pursue graduate studies.

College/School
Emerging and Integrative Studies

Syllabus
PRST 4200 Healthcare Research_Recreated.pdf

Requisites and Restrictions

Prerequisite:
MATH 1530 or permission of the instructor

Healthcare Leadership and Management

Course Information

Course Title
Healthcare Leadership and Mgt

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description

This course delves into the complex interplay of managerial and leadership roles within the healthcare sector, offering a deep dive into concepts, issues, and practical functions relevant to healthcare professionals. It is tailored to provide an understanding of how leadership theories and management principles are uniquely applied in healthcare settings. Key topics include strategic planning, ethical decision-making, effective communication, and team management, all within the context of healthcare. Participants will engage with real-world scenarios and case studies, gaining insights into navigating the challenges and opportunities in healthcare leadership. The course is designed not only to impart theoretical leadership knowledge but also to equip aspiring and current healthcare professionals with practical skills for leading and managing effectively. This includes understanding their own leadership style as well as healthcare policies, laws, and regulations, ensuring a comprehensive grasp of the healthcare landscape. Ideal for anyone interested in a career in the healthcare setting, this course aims to cultivate leaders who can drive positive change and innovation in their healthcare environments.

College/School

Emerging and Integrative Studies

Syllabus

PRST 4210 Healthcare Leadership and Management_Recreated.pdf

Understanding Mental Health as a Public Health Issue

Course Information

Course Title
Und Mtl Hlth as Pblc Hlth Iss

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description

This course explores the history and impact of mental health on public health. Aside from promoting healthy lifestyles, public health is also responsible for detecting, preventing, and responding to diseases. It is essential for public health to address mental health since it affects both physical and social well-being. Living a fulfilling life depends on how people relate to others, make decisions, handle stress, and manage their mental health. Identifying risk factors, improving mental health awareness, eliminating stigma associated with treatment, eliminating health disparities, and improving access to mental health services for all people, especially those who are disproportionately affected are among the public health challenges. Providing culturally sensitive programs and services to all communities requires understanding different cultural perceptions about mental health and limited access to care. Bringing a sense of wellness to communities that would otherwise lack proper access to care is possible by understanding mental health as a public health issue.

College/School

Emerging and Integrative Studies

Syllabus

PRST 4220 Understanding Mental Health_Recreated.pdf

Course Information

Course Title
Design Strategies & Promotion

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course will provide students an opportunity to research the subliminal effects of various graphic design structures and tools on consumers' decision-making processes. In addition to why consumers prefer certain design techniques over others and how qualitative or quantitative research methods are used to study the effects of colors, fonts, lines, and various other graphic design tools on consumer preferences.

College/School
Emerging and Integrative Studies

Syllabus
PRST 4300 Design Strategies in Promotions.pdf

Course Information

Course Title
Ethics and AI

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
The Ethics and AI course will explore ethical implications and societal impacts of using emerging AI technologies (e.g., ChatGPT, iPhone AI editing https://www.dignited.com/34229/what-is-an- ai-camera-in-smartphones/, Voice Generation). A look at the principles of ethical responsibility, including values of integrity, fostering a culture of honesty, and nurturing an environment where genuine learning thrives in using AI technology. Students will learn about potential harms of misusing AI technology and other societal challenges brought on by AI not used ethically.

College/School
Emerging and Integrative Studies

Syllabus
PRST 4310 Ethics and AI the Good the Bad and the Unknown (002).pdf

Importance of Design in Customer Preferences

Course Information

Course Title
Importance of Design in Custom

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course will provide students the research tools to study the effects of colors, fonts, lines and various other graphic design tools on consumer preferences. They will also be introduced to techniques in ethically designing for customers.

College/School
Emerging and Integrative Studies

Syllabus
PRST 4410.docx

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4610

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4611

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4612

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4613

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4615

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4614

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4616

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4617

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4619

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4618

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4720

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4721

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4723

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4722

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4724

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4725

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4727

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4726

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4728

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4729

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4831

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4830

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4832

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4833

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4835

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4834

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4836

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4837

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4839

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4838

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in professional studies not covered in existing courses.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Seminar/Data Communication

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4900

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course introduces students to business data communications terminology and concepts to include in the examination of data communication topologies; network design and management; data communication hardware, software, and standards; the internet; and e-business applications.

College/School
Emerging and Integrative Studies

Syllabus
PRST 4900 Seminar in Data Communication_Recreated.pdf

Course Information

Course Title
Surviving an Active Shooter

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4920

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course will teach best practices for surviving an active shooter. By learning these principles, you will substantially increase your chances of surviving if you find yourself in an active shooter situation. It will also inform you what to do before and after an event so that survival is more likely and that recovery from such an incident is quicker.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Managing Emergency Volunteers

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4922

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course will focus on the management and benefits of using Internal Volunteer Organizations, External Volunteer Organizations and Spontaneous Volunteers to support an agency's preparedness and increase capacities during crises response to incidents, emergencies, or disasters. The course includes an overview of Managing Community donations.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Intelligence Gathering

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4921

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course examines the various techniques used, as well as hindrances, in the intelligence gathering process. The course will cover various approaches to investigative and interview practices for varying agency levels, including interagency communication and resource allocation. Attention is given to the impact of public perceptions of intelligence gathering, the dissemination of, and the potential risk to public safety professionals. Mitigation measures are also discussed.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Science of Contact Tracing

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4923

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Students will learn the necessary investigative skills needed for contact tracing and various strategies that can be used to jog the memory of an infected patient. Principles are also taught dealing with secretive patients, and even more importantly, the principles of case management for infected patients. Students will also learn the principles of leading a contact tracing team.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Biological Event Readiness

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4924

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course provides the various tools needed for public health and public safety agencies to address pandemics and epidemics. Students will learn how to identify the differences between pandemics, epidemics, and outbreaks. Students will learn mitigation strategies to ensure that critical infrastructure and essential work can be functional during a pandemic or epidemic. Students will research acts of bioterrorism and utilize critical thinking skills needed to prevent bioterrorist attacks.

College/School
Emerging and Integrative Studies

Course Information

Course Title
Culminating Project

Academic Level (Course Level)
Undergraduate

Course Subject Code
PRST

Course Number
4995

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Permission of instructor. Academic research or other creative activity resulting in a tangible product to demonstrate synthesis of student's coursework. This course is required for all PRST and LIST majors.

College/School
Emerging and Integrative Studies

Requisites and Restrictions

Prerequisite:
Senior Status. Permission of instructor.

School of Art, Craft & Design Department

Professor, Kimberly Winkle, Director; Associate Professor David Gallop (Design), Assistant Professor Matthew Holben (Design), Associate Professor Daniel Randall (Metals), Associate Professor Joshua Field (Art Foundations), Assistant Professor Damon MacNaught (Glass), Associate Professor Jeremy Blair (Art Education), Associate Professor Perry Johnson (Painting), Assistant Professor Bevin Butler (Art History), Associate Professor Jessica Wilson (Clay), Associate Professor Rena Wood (Fibers), Lecturer Stephan Micheletto-Blouin (Wood).

The mission of the School of Art, Craft & Design is to provide a supportive creative learning environment that cultivates creative aptitudes and skills acquisition, grows cultural, historical, and theoretical knowledge, and develops critical faculties through visual art experiences. Students gain fluency in visual communication, critical thinking, personal expression through the discovery and transmission of knowledge, preparing them to contribute to the visual and social culture of their communities. A unique facet of Tennessee Tech is the Appalachian Center for Craft which is dedicated to promoting excellence in American craft by providing access to the highest quality professional education in studio crafts, and presenting diverse craft artists, works and events in a community arts context.

Main Campus

Professor Kimberly Winkle

The nationally recognized faculty of art education, art history, art foundations, design and painting, as well as the studios, classrooms and offices for the Bachelor of Fine Arts concentrations in art education, design and painting, and the art foundations and art history curricula, and the Bachelor of Science in Studio Arts are located in the Bryan Fine Arts Building and Foundation Hall.

The Bachelor of Fine Arts concentration in art education, prepares individuals to become art teachers in Grades K-12. The program for licensure in Art Education is designed to provide students with a broad liberal arts component, a program of professional studies, and a major in the teaching field.

The Bachelor of Fine Arts concentration design prepares students to pursue a professional career in visual communications, and the concentration in painting prepares the student for a career in studio art. Students develop technical competence, experience in design and problem solving, knowledge of art history and theories of style, the application of critical thinking, and the development of an accomplished portfolio of artwork.

The Bachelor of Science in Studio Arts is intended to reflect a contemporary, wide-ranging, and interdisciplinary art approach, preparing students for numerous potential directions in visual art, craft, design, or other fields of study. The flexible curriculum inherent of the BS program can lead to career development as an artist, in broader career fields, or preparation for advanced study.

Craft Center

Kimberly Winkle, Director

The primary function of the Joe L. Evins Appalachian Center for Craft is to serve the Bachelor of Fine Arts and Bachelor of Science - Studio Arts programs and to offer a high-quality studio art curriculum, concentrating in the craft media of clay, fibers, glass, metals, and wood. The Craft Center expands the development of contemporary expression and the lineage of craft techniques and forms, and enhances a flourishing crafts culture in the region through its academic, workshop and exhibition programs.

The Craft Center offers over 50,000 square feet of studio space in clay, fibers, glass, metal and wood, as well as 4,000 square feet of galleries, on-site housing facilities, café, and many other amenities. Located on 500 acres of woodland overlooking Center Hill Lake in Middle Tennessee, the Craft Center is 24 miles from the Tennessee Tech University campus.

The Craft Center's facilities support Bachelor of Fine Arts craft concentrations and Bachelor of Science - Studio Arts program led by the nationally recognized faculty in clay, fibers, glass, metals, and wood. Fully committed to their work both as teachers and as artists, they provide excellent studio instruction in an extraordinary studio environment. Six artists-in-residence also enhance the studio and gallery offerings. Main campus art courses and the general educational curriculum of Tennessee Technological University comprise about half of this unique, top-quality educational experience.

Minors

Art History Minor
Art Minor
Art Studio Minor

Programs

ART-ARED - Art, Art Education Concentration, B.F.A.

Program Overview

Program Long Title
Art, Art Education Concentration, B.F.A.

College/School
Fine Arts

Department(s)
School of Art, Craft & Design

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - Fine Arts, Art Education Concentration, B.F.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ARED2020 - Art Education Theory

Actual Credits 3

Requirement Select
- ART1320 - Creative Studio

Actual Credits 3

Requirement Select
- ART1340 - Foundations Studio I

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- ART1000 - First-Year Art Experience

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select
- ART1045 - Drawing I

Actual Credits 3

Requirement Select
- ART1350 - Foundations Studio II

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	18

Requirement Select
- ART1050 - Drawing II

Actual Credits 3

Requirement Select
- ART2020 - Art History Survey II

Actual Credits 3

Requirement Select
- ART2410 - Painting I, Introduction

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- FOED2050 - Education and Technology

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ARED1251 - Digital Technologies in Art Education

Actual Credits 2

Requirement Select
- ART2000 - Art History Survey I

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2710 - Introduction to Glass
  OR
- ART2810 - Introduction to Metals
  OR
- ART2910 - Introduction to Wood
  OR
- ART3820 - Metals Studio-Blacksmithing
  OR
- ART2505 - Intro to Ceramics (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Flight Foundations - flexible elective (1 cr.) (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	14

Requirement Select
- ARED3155 - Practicum I

Actual Credits 1

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- Studio emphasis (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- ART2040 - Printmaking Relief
  OR
- ART3625 - Surface Design

Actual Credits 2

Requirement Select
- ART 3206 - Methods and Media (2 cr.) (Generic)

Actual Credits 2

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- ARED3165 - Practicum II

Actual Credits 1

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Upper-division Studio Emphasis (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- ART3130 - Art Since 1900
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART3180 - History of Prints
  OR
- ART3190 - Medieval Art History
  OR
- ART4100 - Art Tour

Actual Credits 3

Requirement Select
- ARED2050 - STEAM Studio

Actual Credits 2

Requirement Select

- CUED3505 - Classroom Design & Management for SEED
  OR
- CUED3500 - Classroom Design & Management for ELED

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	14

Requirement Select

- Studio emphasis (from Clay, Glass, Fibers, Metals, Painting or Wood)
  (Generic)

Actual Credits 3

Requirement Select

- ART3130 - Art Since 1900
  OR
- ART3150 - History of Crafts
  OR
- ART4100 - Art Tour
  OR
- ART3170 - History of Design
  OR
- ART3180 - History of Prints
  OR
- ART3190 - Medieval Art History

Actual Credits 3

Requirement Select

- Upper-division studio emphasis (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- ARED4875 - Applications of Learning

Actual Credits 5

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select

- ARED4900 - Residency

Actual Credits 10

Requirement Select

- ARED4925 - Applications of Teaching

Actual Credits 2

Requirement Select

- Note: A grade of 'B' or better is required for continuation in the program for the following courses: ARED 2020 and ARED 4875.
  (Generic)

Actual Credits -

Requirement Select

- ** Studio Emphasis hours can be divided between two media.
  (Generic)

Actual Credits -

ART-BFAC - Art, Clay Concentration, B.F.A.

Program Overview

Program Long Title
Art, Clay Concentration, B.F.A.

College/School
Fine Arts

Department(s)
School of Art, Craft & Design

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - Fine Arts, Clay Concentration, B.F.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ART1320 - Creative Studio

Actual Credits 3

Requirement Select
- ART1340 - Foundations Studio I

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- ART1035 - Introduction to Art
  OR
- ART2000 - Art History Survey I

Actual Credits 3

Requirement Select
- ART1000 - First-Year Art Experience

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ART1045 - Drawing I

Actual Credits 3

Requirement Select
- ART1350 - Foundations Studio II

Actual Credits 3

Requirement Select
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2505 - Introduction to Ceramics

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ART1050 - Drawing II
  OR
- ART2330 - Technical Drawing
  OR
- ART2340 - Comp-Aided Drafting for Artist

Actual Credits 3

Requirement Select
- ART2020 - Art History Survey II

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2410 - Painting I, Introduction
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2710 - Introduction to Glass
  OR
- ART2810 - Introduction to Metals
  OR
- ART2910 - Introduction to Wood
  OR
- ART3810 - Metals Studio-Metalsmithing

Actual Credits 3

Requirement Select

- ART3511 - Intermediate Handbuilding

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select

- ART1250 - Intro to Digital Imaging

Actual Credits 3

Requirement Select

- ART3130 - Art Since 1900

Actual Credits 3

Requirement Select

- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2410 - Painting I, Introduction
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2710 - Introduction to Glass
  OR
- ART2810 - Introduction to Metals
  OR
- ART2910 - Introduction to Wood
  OR
- ART3810 - Metals Studio-Metalsmithing
  OR
- ART3820 - Metals Studio-Blacksmithing

Actual Credits 3

Requirement Select

- ART3540 - Intermediate Wheel-Throwing

Actual Credits 3

Requirement Select

- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select

- ART3520 - Advanced Clay Studio
  OR
- ART3521 - Advanced Clay Studio

Actual Credits 3

Requirement Select

- ART2000 - Art History Survey I
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART3190 - Medieval Art History
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Requirement Select

- ART3099 - Prof Practices of the Artist

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select

- ART3520 - Advanced Clay Studio
  OR
- ART3521 - Advanced Clay Studio

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- ART2000 - Art History Survey I
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART3190 - Medieval Art History
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select

- ART3530 - Independent Studies-Clay

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- ART4511 - Senior Thesis in Clay I

Actual Credits 3

Requirement Select

- ART4512 - Senior Thesis in Clay II

Actual Credits 3

Requirement Select

- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- ART3820 - Metals Studio-Blacksmithing
  OR
- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2410 - Painting I, Introduction
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2710 - Introduction to Glass
  OR
- ART2810 - Introduction to Metals
  OR
- ART2910 - Introduction to Wood

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select

- ART4513 - Senior Thesis in Clay III

Actual Credits 3

Requirement Select

- ART4514 - Senior Thesis in Clay IV

Actual Credits 3

Requirement Select

- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- Flight Foundations - flexible elective (1 cr.) - to be taken from approved Flight Foundations courses.
  (Generic)

Actual Credits 1

Requirement Select

- 1 The Art History credits (Survey I) cannot count for both Art History electives and general HUFA requirements. 2 Majors in BFA concentrations in Clay, Design, Dual-Studio, Fibers, Glass, Metals, Painting, and Wood must have C or above in all art courses applied to fulfill requirements in the major. Art courses must also have the grade of C or above in order to serve as prerequisites for other art courses and to be counted as completed in the sophomore assessment for recommendation to advance in the concentration.
  (Generic)

Actual Credits -

ART-BFAD - Art, Design Concentration, Digital Media Emphasis, B.F.A.

Program Overview

Program Long Title
Art, Design Concentration, Digital Media Emphasis, B.F.A.

College/School
Fine Arts

Department(s)
School of Art, Craft & Design

Degree Map

Degree Map Name
Degree Plan - Fine Arts, Design Concentration, Digital Media Emphasis, B.F.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ART1250 - Intro to Digital Imaging

Actual Credits 3

Requirement Select
- ART1340 - Foundations Studio I

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ART2000 - Art History Survey I
  OR
- ART1035 - Introduction to Art

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- ART1000 - First-Year Art Experience

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ART1320 - Creative Studio

Actual Credits 3

Requirement Select
- ART2210 - Introduction to Design

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- ART1045 - Drawing I

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- ART1350 - Foundations Studio II

Actual Credits 3

Requirement Select
- ART2020 - Art History Survey II

Actual Credits 3

Requirement Select
- ART3210 - Design Studio

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- ART - Intro Studio of Choice (3 cr.) (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ART1050 - Drawing II
  OR
- ART2340 - Comp-Aided Drafting for Artist

Actual Credits 3

Requirement Select
- ART3130 - Art Since 1900

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- ART2220 - Typography, Text and Image

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- ART3240 - Illustration/Visual Narrative

Actual Credits 3

Requirement Select
- Art Studio Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- ART2000 - Art History Survey I
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART3190 - Medieval Art History
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Requirement Select
- ART3220 - Design Studio II

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Art Studio Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- ART2000 - Art History Survey I
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART3190 - Medieval Art History
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Requirement Select
- ART3230 - Design Studio III

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- ART4212 - Design Practicum

Actual Credits 3

Requirement Select
- ART4231 - Design Portfolio I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- ART - Intro Studio of Choice (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- ART4221 - Design Internship

Actual Credits 3

Requirement Select
- ART4232 - Design Portfolio II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Flight Foundations - flexible elective (1 cr.): must be taken from the approved list of Flight Foundations courses.
  (Generic)

Actual Credits 1

Requirement Select
- 1 The Art History credits (Survey I) cannot count for both Art History electives and general HUFA requirements. 2 Majors in BFA concentrations in Clay, Design, Dual-Studio, Fibers, Glass, Metals, Painting, and Wood must have C or above in all art courses applied to fulfill requirements in the major. Art courses must also have the grade of C or above in order to serve as prerequisites for other art courses and to be counted as completed in the sophomore assessment for recommendation to advance in the concentration.
  (Generic)

Actual Credits -

Requirement Select
- Intro Art Studio electives include: ART 2050, ART 2410, ART 2505, ART 2510, ART 2540, ART 2610, ART 2710, ART 2810, ART 2910, or ART 3820,
  (Generic)

Actual Credits -

ART-BFAF - Art, Fibers Concentration, B.F.A.

Program Overview

Program Long Title
Art, Fibers Concentration, B.F.A.

College/School
Fine Arts

Department(s)
School of Art, Craft & Design

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - Fine Arts, Fibers Concentration, B.F.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ART1320 - Creative Studio

Actual Credits 3

Requirement Select
- ART1340 - Foundations Studio I

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- ART1035 - Introduction to Art
  OR
- ART2000 - Art History Survey I

Actual Credits 3

Requirement Select
- ART1000 - First-Year Art Experience

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ART1045 - Drawing I

Actual Credits 3

Requirement Select
- ART1350 - Foundations Studio II

Actual Credits 3

Requirement Select
- ART2610 - Introduction to Fibers

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- ART1050 - Drawing II
  OR
- ART2330 - Technical Drawing
  OR
- ART2340 - Comp-Aided Drafting for Artist

Actual Credits 3

Requirement Select
- ART2020 - Art History Survey II

Actual Credits 3

Requirement Select
- ART3610 - Weaving I
  OR
- ART3620 - Surface Design I
  OR
- ART3640 - 3-D Structures in Fibers

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ART1250 - Intro to Digital Imaging

Actual Credits 3

Requirement Select
- ART3130 - Art Since 1900

Actual Credits 3

Requirement Select
- ART3610 - Weaving I
  OR
- ART3620 - Surface Design I
  OR
- ART3640 - 3-D Structures in Fibers

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- ART3610 - Weaving I
  OR
- ART3620 - Surface Design I
  OR
- ART3640 - 3-D Structures in Fibers

Actual Credits 3

Requirement Select
- ART3650 - Fiber Art Studio I

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- ART2000 - Art History Survey I
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART3190 - Medieval Art History
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Requirement Select

- ART3099 - Prof Practices of the Artist

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select

- ART3611 - Weaving II
  OR
- ART3621 - Surface Design II
  OR
- ART3630 - Independent Study-Fibers
  OR
- ART3631 - Independent Study-Fibers
  OR
- ART3641 - 3-D Structures in Fibers II

Actual Credits 3

Requirement Select

- ART3651 - Fiber Art Studio II

Actual Credits 3

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select

- ART2000 - Art History Survey I
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART3190 - Medieval Art History
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Requirement Select

- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2410 - Painting I, Introduction
  OR
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2710 - Introduction to Glass
  OR
- ART2810 - Introduction to Metals
  OR
- ART2910 - Introduction to Wood
  OR
- ART3820 - Metals Studio-Blacksmithing
  OR
- ART2505 - Introduction to Ceramics

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- ART4611 - Senior Thesis in Fibers I

Actual Credits 3

Requirement Select

- ART4612 - Senior Thesis in Fibers II

Actual Credits 3

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- ART2410 - Painting I, Introduction
  OR
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2710 - Introduction to Glass
  OR
- ART2810 - Introduction to Metals
  OR
- ART2910 - Introduction to Wood
  OR
- ART3820 - Metals Studio-Blacksmithing
  OR
- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2505 - Introduction to Ceramics

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select

- ART4613 - Senior Thesis in Fibers III

Actual Credits 3

Requirement Select

- ART4614 - Senior Thesis in Fibers IV

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- Flight Foundations elective (1 cr.) - must be chosen from the approved list of Flight Foundations courses.
  (Generic)

Actual Credits 1

Requirement Select

- Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- The Art History credits (Survey I) cannot count for both Art History electives and general education HUFA requirements.
  (Generic)

Actual Credits -

ART-BFAG - Art, Glass Concentration, B.F.A.

Program Overview

Program Long Title

Art, Glass Concentration, B.F.A.

College/School

Fine Arts

Department(s)

School of Art, Craft & Design

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - Fine Arts, Glass Concentration, B.F.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select

- ART1320 - Creative Studio

Actual Credits 3

Requirement Select

- ART1340 - Foundations Studio I

Actual Credits 3

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select

- ART1035 - Introduction to Art
  OR
- ART2000 - Art History Survey I

Actual Credits 3

Requirement Select

- ART1000 - First-Year Art Experience

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ART1045 - Drawing I

Actual Credits 3

Requirement Select
- ART1350 - Foundations Studio II

Actual Credits 3

Requirement Select
- ART2710 - Introduction to Glass

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- ART1050 - Drawing II
  OR
- ART2330 - Technical Drawing
  OR
- ART2340 - Comp-Aided Drafting for Artist

Actual Credits 3

Requirement Select
- ART2020 - Art History Survey II

Actual Credits 3

Requirement Select
- ART3710 - Intermediate Glass Studio

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ART1250 - Intro to Digital Imaging

Actual Credits 3

Requirement Select
- ART3130 - Art Since 1900

Actual Credits 3

Requirement Select
- ART3711 - Intermediate Glass Studio

Actual Credits 3

Requirement Select
- ART3740 - Warm Glass Process
  OR
- ART3750 - Prod Processes in Glass
  OR
- ART3760 - Lampwork Glass Studio

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- ART3720 - Advanced Glass Studio

Actual Credits 3

Requirement Select
- ART3099 - Prof Practices of the Artist

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- ART2410 - Painting I, Introduction
  OR
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2810 - Introduction to Metals
  OR
- ART2910 - Introduction to Wood
  OR
- ART3820 - Metals Studio-Blacksmithing
  OR
- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2505 - Intro to Ceramics (3 cr.) (Generic)

Actual Credits 3

Requirement Select

- ART2000 - Art History Survey I
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART3190 - Medieval Art History
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select

- ART3721 - Advanced Glass Studio

Actual Credits 3

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select

- ART2410 - Painting I, Introduction
  OR
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2810 - Introduction to Metals
  OR
- ART2910 - Introduction to Wood
  OR
- ART3820 - Metals Studio-Blacksmithing
  OR
- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2505 - Intro to Ceramics (3 cr.) (Generic)

Actual Credits 3

Requirement Select

- ART2000 - Art History Survey I
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART3190 - Medieval Art History
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Requirement Select

- ART3730 - Independent Study-Glass
  OR
- ART4740 - Special Problems in Glass

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	13

Requirement Select

- ART4711 - Senior Thesis in Glass I

Actual Credits 3

Requirement Select

- ART4712 - Senior Thesis in Glass II

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Flight Foundations elective (1 cr.) - must be chosen from the list of approved Flight Foundations courses.
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- ART4713 - Senior Thesis in Glass III

Actual Credits 3

Requirement Select
- ART4714 - Senior Thesis in Glass IV

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Majors in BFA concentrations in Clay, Design, Dual-Studio, Fibers, Glass, Metals, Painting, and Wood must have C or above in all art courses applied to fulfill requirements in the major. Art courses must also have the grade of C or above in order to serve as prerequisites for other art courses and to be counted as completed in the sophomore assessment for recommendation to advance in the concentration.
  (Generic)

Actual Credits -

ART-BFAM - Art, Metals Concentration, B.F.A.

Program Overview

Program Long Title
Art, Metals Concentration, B.F.A.

College/School
Fine Arts

Department(s)
School of Art, Craft & Design

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - Fine Arts, Metals Concentration, B.F.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ART1320 - Creative Studio

Actual Credits 3

Requirement Select
- ART1340 - Foundations Studio I

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- ART1035 - Introduction to Art
  OR
- ART2000 - Art History Survey I

Actual Credits 3

Requirement Select
- ART1000 - First-Year Art Experience

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ART1045 - Drawing I

Actual Credits 3

Requirement Select
- ART1350 - Foundations Studio II

Actual Credits 3

Requirement Select
- ART2810 - Introduction to Metals

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- ART2330 - Technical Drawing
  OR
- ART2340 - Comp-Aided Drafting for Artist

Actual Credits 3

Requirement Select
- ART2020 - Art History Survey II

Actual Credits 3

Requirement Select
- ART3810 - Metals Studio-Metalsmithing

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ART1250 - Intro to Digital Imaging

Actual Credits 3

Requirement Select
- ART3130 - Art Since 1900

Actual Credits 3

Requirement Select
- ART3810 - Metals Studio-Metalsmithing

Actual Credits 3

Requirement Select
- ART3820 - Metals Studio-Blacksmithing

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- ART3810 - Metals Studio-Metalsmithing
  OR
- ART3820 - Metals Studio-Blacksmithing

Actual Credits 3

Requirement Select
- ART2000 - Art History Survey I
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART3190 - Medieval Art History
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Requirement Select

- ART2410 - Painting I, Introduction
  OR
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2710 - Introduction to Glass
  OR
- ART2910 - Introduction to Wood
  OR
- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2505 - Introduction to Ceramics

Actual Credits 3

Requirement Select

- ART3099 - Prof Practices of the Artist

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select

- ART3810 - Metals Studio-Metalsmithing
  OR
- ART3820 - Metals Studio-Blacksmithing

Actual Credits 3

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select

- ART2410 - Painting I, Introduction
  OR
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2710 - Introduction to Glass
  OR
- ART2910 - Introduction to Wood
  OR
- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2505 - Introduction to Ceramics

Actual Credits 3

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select

- ART3830 - Independent Study-Metals

Actual Credits 3

Requirement Select

- Flight Foundations elective (1 cr.) - flexible elective must be chosen from the approved list of Flight Foundation courses.
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- ART2000 - Art History Survey I
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART3190 - Medieval Art History
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Requirement Select

- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- ART4811 - Senior Thesis in Metal I

Actual Credits 3

Requirement Select
- ART4812 - Senior Thesis in Metals II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- ART4813 - Senior Thesis in Metal III

Actual Credits 3

Requirement Select
- ART4814 - Senior Thesis in Metal IV

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

ART-BFAW - Art, Wood Concentration, B.F.A.

Program Overview

Program Long Title
Art, Wood Concentration, B.F.A.

College/School
Fine Arts

Department(s)
School of Art, Craft & Design

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - Fine Arts, Wood Concentration, B.F.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ART1340 - Foundations Studio I

Actual Credits 3

Requirement Select
- ART1320 - Creative Studio

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- ART1035 - Introduction to Art
  OR
- ART2000 - Art History Survey I

Actual Credits 3

Requirement Select
- ART1000 - First-Year Art Experience

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ART1045 - Drawing I

Actual Credits 3

Requirement Select
- ART1350 - Foundations Studio II

Actual Credits 3

Requirement Select
- ART2910 - Introduction to Wood

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- ART2020 - Art History Survey II

Actual Credits 3

Requirement Select
- ART2330 - Technical Drawing

Actual Credits 3

Requirement Select
- ART3910 - Intermediate Wood Studio

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ART1250 - Intro to Digital Imaging

Actual Credits 3

Requirement Select
- ART3130 - Art Since 1900

Actual Credits 3

Requirement Select
- ART3911 - Intermediate Wood Studio

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- ART3920 - Advanced Wood Studio

Actual Credits 3

Requirement Select
- ART3930 - Ind Studies in Woodworking
  OR
- ART4940 - Special Problems In Wood
  OR
- ART3920 - Advanced Wood Studio
  OR
- ART3921 - Advanced Wood Studio

Actual Credits 3

Requirement Select
- ART2000 - Art History Survey I
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Requirement Select

- ART2410 - Painting I, Introduction
  OR
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2710 - Introduction to Glass
  OR
- ART2810 - Introduction to Metals
  OR
- ART3820 - Metals Studio-Blacksmithing
  OR
- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2505 - Introduction to Ceramics

Actual Credits 3

Requirement Select

- ART3099 - Prof Practices of the Artist

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	16

Requirement Select

- Flight Foundations elective (1 cr.) - flexible elective, must be chosen from the list of approved Flight Foundations courses.
  (Generic)

Actual Credits 1

Requirement Select

- ART3921 - Advanced Wood Studio

Actual Credits 3

Requirement Select

- ART3940 - Woodturning

Actual Credits 3

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select

- ART2410 - Painting I, Introduction
  OR
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2710 - Introduction to Glass
  OR
- ART2810 - Introduction to Metals
  OR
- ART3820 - Metals Studio-Blacksmithing
  OR
- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2505 - Introduction to Ceramics

Actual Credits 3

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- ART4911 - Senior Thesis in Wood I

Actual Credits 3

Requirement Select

- ART4912 - Senior Thesis in Wood II

Actual Credits 3

Requirement Select

- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- ART2000 - Art History Survey I
  OR
- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select
- ART4913 - Senior Thesis in Wood III

Actual Credits 3

Requirement Select
- ART4914 - Senior Thesis in Wood IV

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- 1 The Art History credits (Survey I) cannot count for both Art History electives and general HUFA requirements.
  2 Majors in BFA concentrations in Clay, Design, Dual-Studio, Fibers, Glass, Metals, Painting, and Wood must have C or above in all art courses applied to fulfill requirements in the major. Art courses must also have the grade of C or above in order to serve as prerequisites for other art courses and to be counted as completed in the sophomore assessment for recommendation to advance in the concentration.
  (Generic)

Actual Credits -

ART-GFDF - Art, General Fine Arts, Dual Focus Concentration, B.F.A.

Program Overview

Program Long Title
Art, General Fine Arts, Dual Focus Concentration, B.F.A.

College/School
Fine Arts

Department(s)
School of Art, Craft & Design

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - General Fine Arts, Dual-Focus Concentration, B.F.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select
- ART1250 - Intro to Digital Imaging

Actual Credits 3

Requirement Select
- ART1340 - Foundations Studio I

Actual Credits 3

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- ART1035 - Introduction to Art
  OR
- ART2000 - Art History Survey I

Actual Credits 3

Requirement Select
- ART1000 - First-Year Art Experience

Actual Credits 1

Requirement Select

- NOTE: The Art History credits (Survey I or II) cannot count for both Art History electives and general education HUFA requirements. Students must complete either Art 2000 (Survey I) or Art 1035 (Intro to Art) as part of their required 9 credit hours of general education HUFA. (Generic)

Actual Credits -

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select

- ART1045 - Drawing I

Actual Credits 3

Requirement Select

- ART1320 - Creative Studio

Actual Credits 3

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2410 - Painting I, Introduction
  OR
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2710 - Introduction to Glass
  OR
- ART2810 - Introduction to Metals
  OR
- ART2910 - Introduction to Wood
  OR
- ART3820 - Metals Studio-Blacksmithing
  OR
- ART2505 - Introduction to Ceramics

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select

- ART1350 - Foundations Studio II

Actual Credits 3

Requirement Select

- ART2020 - Art History Survey II

Actual Credits 3

Requirement Select

- Art Studio Concentration Core 1 (3000/4000 level course) (Generic)

Actual Credits 3

Requirement Select

- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2410 - Painting I, Introduction
  OR
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2710 - Introduction to Glass
  OR
- ART2810 - Introduction to Metals
  OR
- ART2910 - Introduction to Wood
  OR
- ART3820 - Metals Studio-Blacksmithing
  OR
- ART2505 - Introduction to Ceramics

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select

- ART1050 - Drawing II
  OR
- ART2330 - Technical Drawing
  OR
- ART2340 - Comp-Aided Drafting for Artist

Actual Credits 3

Requirement Select

- Art Studio Concentration Core 1 (3000/4000 level course) (Generic)

Actual Credits 3

Requirement Select
- Art Studio Concentration Core 2 (3000/4000 level course) (Generic)

Actual Credits 3

Requirement Select
- ART3130 - Art Since 1900

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- Art History Elective (Generic)

OR
- Guided Elective (Generic)

Actual Credits 3

Requirement Select
- Art Studio Concentration Core 1 (3000/4000 level course) (Generic)

Actual Credits 3

Requirement Select
- Art Studio Concentraiton Core 2 (3000/4000 level course) (Generic)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- ART3099 - Prof Practices of the Artist

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Art History Elective (Generic)

Actual Credits 3

Requirement Select
- Art Studio Concentration Core 1 (3000/4000 level course) (Generic)

Actual Credits 3

Requirement Select
- Art Studio Concentration Core 2 (3000/4000 level course) - (6 cr.) (Generic)

Actual Credits 6

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- Art Studio (Generic)

OR
- Guided Elective (Generic)

Actual Credits 3

Requirement Select
- ART4111 - Senior Thesis/Dual-Focus I

Actual Credits 3

Requirement Select
- ART4112 - Senior Thesis/Dual-Focus II

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	13

Requirement Select
- Flight Foundations - flexible elective (1 cr.) - must be chosen from the approved list of Flight Foundation courses. (Generic)

Actual Credits 1

Requirement Select

- ART4113 - Senior Thesis/Dual-Focus III

Actual Credits 3

Requirement Select

- ART4114 - Senior Thesis/Dual-Focus IV

Actual Credits 3

Requirement Select

- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- Guided Electives
  SPAN 1010 & SPAN 1020 or SPAN 2010 & SPAN 2020
  OR
  GERM 1010 & GERM 1020 or GERM 2010 & GERM 2020
  OR
  FREN 1010 & FREN 1020 or FREN 2010 & FREN 2020
  (Generic)

Actual Credits -

Requirement Select

- Approved courses for Concentration Core 1 and 2:
  Student will choose four studio courses from Concentration Core 1 and four studio courses from Concentration Core 2. Prerequisites must be met before students can take Advanced courses.
  *Art Education majors are NOT eligible for the Dual Studio Concentration
  (Generic)

Actual Credits -

Requirement Select

- Clay:
  ART 3511-Intermediate Hand building ART 3520-Advanced Clay Studio ART 3521-Advanced Clay Studio ART 3530-Independent Studies in Clay ART 3531-Independent Studies in Clay ART 3540-Intermediate Wheel-Throwing
  (Generic)

Actual Credits -

Requirement Select

- Fibers:
  ART 3610 Weaving I ART 3611-Weaving II ART 3620-Surface Design I ART 3621-Surface Design II ART 3630-Independent Study in Fibers ART 3631-Independent Study in Fibers ART 3640-3-D Structures I ART 3641-3-D Structures II ART 3650-Fiber Art Studio I ART 3651- Fiber Art Studio II
  (Generic)

Actual Credits -

Requirement Select

- Glass:
  ART 3710- Int. Glass Studio ART 3711- Int. Glass Studio ART 3720- Adv. Glass Studio ART 3721- Adv. Glass Studio
  ART 3730-Independent Study in Glass ART 3731-Independent Study in Glass ART 3740 -Warm Glass ART 3750- Production Glass ART 4740-Special Problems in Glass
  (Generic)

Actual Credits -

Requirement Select

- Metals:
  ART 3810- Metalsmithing ART 3811-Metalsmithing ART 3820-Blacksmithing ART 3821-Blacksmithing ART 3830-Independent Studies in Metal ART 3831-Independent Studies in Metal
  ART 4840-Special Problems Metals
  (Generic)

Actual Credits -

Requirement Select

- Painting:
  ART 3410-Painting Studio II ART 3420-Painting Studio III ART 3421-Painting IV ART 3430-Independent Study Painting I ART 3431-Independent Study Painting II ART 3310-Drawing III ART 3320-Figure Studies ART 4310-Independent Studies in Drawing I ART 4311-Independent Studies in Drawing II
  (Generic)

Actual Credits -

Requirement Select

- Wood:
  ART 3910- Wood Studio I ART 3911- Wood Studio I ART 3920- Wood Studio II ART 3921- Wood Studio II ART 3930-Independent Studies in Wood ART 3931-Independent Studies in Wood ART 3940-Woodturning(Spring Only) ART 4940-Special Problems in Wood
  (Generic)

Actual Credits -

Requirement Select

- Design:
  ART 3210 Design Studio I ART 3220-Design Studio II ART 3230-Design Studio III ART 3240- Illustration/Visual Narrative Art 2220- Typography, Text, Image ART 4211-Design Practicum ART 4221-Design Internship (Generic)

Actual Credits -

Requirement Select

- 1 A grade of C or better must be earned for all Art courses to be accepted. Students should expect to take at least one intermediate and one advanced course from each studio concentration. Courses accepted are listed below. Art Education cannot be used as dual studios for this concentration. 2 Students should expect to take at least one intermediate and one advanced course from each studio concentration. Art Education cannot be used as dual studios for this concentration. Courses taken for Flight Foundation (General Education) requirements must be from the approved list(located in the catalog). If you are unsure, please check with the current catalog or your advisor to make sure you are taking the correct classes. Majors in BFA concentrations in Clay, Design, Dual-Studio, Fibers, Glass, Metals, Painting, and Wood must have C or above in all art courses applied to fulfill requirements in the major. Art courses must also have a grade of C or above in order to serve as prerequisites for other art courses and to be counted as completed in the sophomore assessment for recommendation to advance in the concentration. (Generic)

Actual Credits -

ART-MIN - Fine Arts Minor

Program Overview

Program Long Title
Fine Arts Minor

College/School
Fine Arts

Department(s)
School of Art, Craft & Design

Requirements

Simple Requirements

Art Minor

Type
Completion Requirement

Art (ART) Minor

Minor in ART (ART)

A minor in ART (15 hours) consists of following requirements:

ART 1340, ART 1340, ART 1350, ART 1035, and ART 1045

and six hours of Art Studio electives.

ART-PNTG - Art, Painting Concentration, B.F.A.

Program Overview

Program Long Title
Art, Painting Concentration, B.F.A.

College/School
Fine Arts

Department(s)
School of Art, Craft & Design

Requirements

No Requirements

Degree Map

Degree Map Name
Degree Plan - Fine Arts, Painting Concentration, B.F.A.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	16

Requirement Select

- ART1320 - Creative Studio

Actual Credits 3

Requirement Select

- ART1340 - Foundations Studio I

Actual Credits 3

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- ART1035 - Introduction to Art
  OR
- ART2000 - Art History Survey I

Actual Credits 3

Requirement Select

- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select

- ART1000 - First-Year Art Experience

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ART1045 - Drawing I

Actual Credits 3

Requirement Select
- ART1350 - Foundations Studio II

Actual Credits 3

Requirement Select
- ART2410 - Painting I, Introduction

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	16

Requirement Select
- ART1050 - Drawing II

Actual Credits 3

Requirement Select
- ART2020 - Art History Survey II

Actual Credits 3

Requirement Select
- ART3410 - Painting II

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- ART1250 - Intro to Digital Imaging

Actual Credits 3

Requirement Select
- ART3130 - Art Since 1900

Actual Credits 3

Requirement Select
- ART3420 - Painting III

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- ART3421 - Painting IV

Actual Credits 3

Requirement Select
- ART3099 - Prof Practices of the Artist

Actual Credits 3

Requirement Select
- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2710 - Introduction to Glass
  OR
- ART2810 - Introduction to Metals
  OR
- ART2910 - Introduction to Wood
  OR
- ART3820 - Metals Studio-Blacksmithing
  OR
- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2505 - Introduction to Ceramics

Actual Credits 3

Requirement Select

- ART3320 - Figure Studies
  OR
- ART4310 - Ind Studies in Drawing I
  OR
- ART4311 - Ind Studies in Drawing II

Actual Credits 3

Requirement Select

- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART3190 - Medieval Art History
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select

- ART3431 - Ind Studies in Painting II

Actual Credits 3

Requirement Select

- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- ART3150 - History of Crafts
  OR
- ART3170 - History of Design
  OR
- ART4040 - Art Crtcsm & Aesth Undrstnding
  OR
- ART4100 - Art Tour

Actual Credits 3

Requirement Select

- ART2510 - Introduction to Handbuilding
  OR
- ART2540 - Introduction to Wheel-Throwing
  OR
- ART2610 - Introduction to Fibers
  OR
- ART2710 - Introduction to Glass
  OR
- ART2810 - Introduction to Metals
  OR
- ART2910 - Introduction to Wood
  OR
- ART3820 - Metals Studio-Blacksmithing
  OR
- ART2050 - Intaglio Printmaking
  OR
- ART2210 - Introduction to Design
  OR
- ART2505 - Introduction to Ceramics

Actual Credits 3

Requirement Select

- HIST2020 - Modern United States History

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	16

Requirement Select

- Art Studio Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- ART4411 - Senior Thesis in Painting I

Actual Credits 3

Requirement Select

- ART4412 - Senior Thesis in Painting II

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select

- Flight Foundations elective (1 cr.) - flexible elective, must be chosen from the approved list of Flight Foundations courses.
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Senior Year	Second Semester	12

Requirement Select

- ART4413 - Senior Thesis in Painting III

Actual Credits 3

Requirement Select

- ART4414 - Senior Thesis in Painting IV

Actual Credits 3

Requirement Select

- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- NOTE:
  Majors in BFA concentrations in Clay, Design, Dual-Studio, Fibers, Glass, Metals, Painting and Wood must have C or above in all art courses applied to fulfill requirements in the major. Art courses must also have the grade of C or above in order to serve as prerequisites for other art courses and to be counted as completed in the sophomore assessment for recommendation to advance in the concentration.
  (Generic)

Actual Credits -

ARTH-MIN - Art History Minor

Program Overview

Program Long Title

Art History Minor

College/School

Fine Arts

Department(s)

School of Art, Craft & Design

Requirements

Simple Requirements

Art History Minor

Type
Completion Requirement

Art History (ARTH) Minor

Art History (ARTH) Minor

Students may earn a minor in Art History by completing 15 hours (5 courses) from the following:

(Required) ART 2000, ART 2020, and ART 3130,

and six hours (2 courses) from the following upper division (3000 and above) Art History course offerings:

ART 3150, ART 3170, ART 3180, ART 3190, ART 4040, or ART 4100.

ARTS-BS - Studio Arts, B.S.

Program Overview

Program Long Title
Studio Arts, B.S.

College/School
Fine Arts

Department(s)
School of Art, Craft & Design

Degree Map

Degree Map Name
Degree Map - Studio Arts, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Degree Map Narrative
BS-Studio Arts 24:25

Year	Semester	Actual Credits
Freshman Year	Fall	16

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- ART1340 - Foundations Studio I

Actual Credits 3

Requirement Select
- ART1320 - Creative Studio

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- ART1000 - First-Year Art Experience

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Spring	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- ART1350 - Foundations Studio II

  OR
- ART1250 - Intro to Digital Imaging

Actual Credits 3

Requirement Select
- ART1045 - Drawing I

Actual Credits 3

Requirement Select
- ART2000 - Art History Survey I

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Fall	16

Requirement Select
- ART1350 - Foundations Studio II

  OR
- ART1250 - Intro to Digital Imaging

Actual Credits 3

Requirement Select
- ART1050 - Drawing II

  OR
- ART2330 - Technical Drawing

  OR
- ART2340 - Comp-Aided Drafting for Artist

Actual Credits 3

Requirement Select
- ART2020 - Art History Survey II

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Sophomore Year	Spring	15

Requirement Select
- Studio Elective (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- Electives (6 hours)
  (Generic)

Actual Credits 6

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Fall	15

Requirement Select
- Upper Division-Studio Elective (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- Studio Elective (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- Elective Credit (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- Art History Elective (Upper Division) -3 credits
  (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Spring	15

Requirement Select
- Upper Division Studio Electives (6 hours)
  (Generic)

Actual Credits 6

Requirement Select
- Art History Elective (Upper Division) - 3 credits
  (Generic)

Actual Credits 3

Requirement Select
- Elective Credit (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Fall	15

Requirement Select
- Upper Division Studio Elective (3 credits)
  (Generic)

Actual Credits 3

Requirement Select
- Upper-division (3000-4000 level) Electives (9 cr.)
  (Generic)

Actual Credits 9

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Spring	13

Requirement Select
- ART4000 - Senior Capstone

Actual Credits 3

Requirement Select
- Upper-division (3000-4000 level) Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Flight Foundations Flexible Elective (1 credit)
  (Generic)

Actual Credits 1

Requirement Select

- Tennessee Tech University requires students to complete a minimum of 36 hours of Upper Division (3000/4000 level courses) to graduate. These classes can include major degree courses, minor courses, or electives.
  (Generic)

Actual Credits -

Requirement Select

- All Art majors must earn a grade of 'C' or above in all art courses in order to earn credit toward graduation. A lower grade requires repeat of the course.
  (Generic)

Actual Credits -

STAR-MIN - Studio Art Minor

Program Overview

Program Long Title
Studio Art Minor

College/School
Fine Arts

Department(s)
School of Art, Craft & Design

Requirements

Simple Requirements

Studio Art Minor

Type
Completion Requirement

Studio Art (STAR) Minor

Students may earn this minor by completing 15 hours (5 courses) from the following list of courses, which are all 3 credit hour studio courses: ART 1045, ART 1050, ART 1250, ART 1340, ART 1350, ART 2210, ART 2220, ART 2340, ART 2410, ART 2505, ART 2510, ART 2540, ART 2610, ART 2710, ART 2810, ART 2910, ART 3210, ART 3220, ART 3230, ART 3310, ART 3410, ART 3420, ART 3511, ART 3521, ART 3540, ART 3610, ART 3611, ART 3620, ART 3621, ART 3640, ART 3641, ART 3650, ART 3651, ART 3711, ART 3721, ART 3740, ART 3750, ART 3811, ART 3821, ART 3911, ART 3921, ART 3940.

Courses

Course Information

Course Title
Digital Tech in Art Education

Academic Level (Course Level)
Undergraduate

Course Subject Code
ARED

Course Number
1250

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Exploration of the role of computers and digital technologies as a tool for artmaking, inquiry, and teaching in the field of art education.

College/School
Fine Arts

Digital Technologies in Art Education

Course Information

Course Title
Digital Technologies in Art Ed

Academic Level (Course Level)
Undergraduate

Course Subject Code
ARED

Course Number
1251

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
No

Course Description
Digital Technologies in Art Education examines the role of computers and digital technologies as a tool for artmaking, creative inquiry, and teaching in art education. The course emphasizes the visual, conceptual, and practical use of digital technologies for making and teaching art. The course addresses philosophical topics related to technology, digital imagery, and social media. All studio projects are experimental, without step-by-step instructions, to encourage creativity, collaboration, and problem-solving skills. Students will apply advanced creative techniques that are relevant in today's art classrooms.

College/School
Fine Arts

Syllabus
ARED 1251 Digital Technologies in Art Education (1) v2.docx

Course Information

Course Title
Art Education Theory

Academic Level (Course Level)
Undergraduate

Course Subject Code
ARED

Course Number
2020

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
2

Course Description
Includes the theoretical, historical, philosophical, and sociological underpinnings of the field of Art Education. Intensive study of the historical and chronological development of Art Education will be featured. Significant trends and movements which have defined Art Education over the last century will be presented. ARED 2020 is also designed to apply the theories learned through presenting the unique interpretations, insights, creative processes, and artistic practices of select contemporary artists and art educators. The course emphasizes the visual, conceptual, and practical applications of contemporary art practices in today's K-12 schools. The course provides engaging activities and projects that aim to provoke, inspire, and stimulate pre-service art education students to become innovators in their future art classrooms. Must earn a grade of B or better to gain course credit and move forward in the program.

College/School
Fine Arts

Course Information

Course Title
STEAM Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ARED

Course Number
2050

Credit Hours

Credit Hours:
2

Other Hours

Min:
4

Course Description
Prerequisites: ARED 2020: Exploration and defining STEAM through experiencing the intersections of art and science through historical connections, campus collaborations, and studio projects.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ARED 2020.

Course Information

Course Title
STEAM Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ARED

Course Number
2051

Credit Hours

Credit Hours:
3

Course Description
STEAM education is a philosophy of teaching and learning that equally values and merges the interdisciplinary fields of Science, Technology, Engineering, Art, and Math. The primary goals of STEAM are to un-silo school disciplines, illuminate universal connections, practice critical thinking, solve problems, and prepare students for careers in K-12 schools (STEM environments). STEAM is inherently localized, and approaches to STEAM are unique to each school, teacher, and student. In this course, art education students will explore and define STEAM through experiencing the intersections of art and STEM through historical connections, campus collaborations and field experiences, studio projects, and a culminating STEAM lesson project. Students will be introduced to the cultural contexts of art and science and will develop innovative STEAM curricular elements that build upon course content. A grade of 'C' or better is required for course credit.

College/School
Fine Arts

Syllabus
TTU ARED 2051 STEAM Studio.docx

Requisites and Restrictions

Prerequisite:
ART 1045 or permission of the instructor.

Course Information

Course Title
Practicum I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ARED

Course Number
3155

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Repeatable for Credit:
No

Course Description
Prerequisites: ARED2020 and full admission to the Teacher Education Program. Corequisite: ART 3205. This practicum is to prepare art education students for their Residency requirements in the senior year. Students will be required to spend at least 20 hours in a public school elementary art environment.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ARED 2020 and full acceptance into the Teacher Education Program

Corequisite:
ART 3205

Course Information

Course Title
Practicum II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ARED

Course Number
3165

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Repeatable for Credit:
No

Course Description
Prerequisites: ARED2020, ARED3155, ART 3205 and full admission to the Teacher Education Program. This practicum is to prepare art education students for their Residency requirements in the senior year. Students will be required to spend at least 20 hours in a public school secondary art environment.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ARED 2020, ARED 3155, and ART 3205. Full admission to the Teacher Education program.

Course Information

Course Title
Applications of Learning

Academic Level (Course Level)
Undergraduate

Course Subject Code
ARED

Course Number
4875

Credit Hours

Credit Hours:
5

Other Hours

Min:
5

Repeatable for Credit:
No

Course Description
Application of Learning equips students with essential skills and knowledge to excel in Residency. Through comprehensive discussions and review sessions, students will understand the key requirements for Residency while exploring effective instructional techniques and crafting innovative curricula and assessment strategies. Additionally, students will communicate and meet with their future mentor teachers and observe their Residency placement classrooms, fostering meaningful relationships before they officially start next semester. This course prepares students to start Residency Teaching, reviews core content covered, and familiarizes students with state teacher licensure procedures. A grade of 'C' or better is required for course credit.

College/School
Fine Arts

Syllabus
ARED 4875 Application of Learning Syllabus.docx

Course Information

Course Title
Residency

Academic Level (Course Level)
Undergraduate

Course Subject Code
ARED

Course Number
4900

Credit Hours

Credit Hours:
10

Other Hours

Min:
10

Course Description
Performance based clinical experience in authentic settings involving planning appropriate instruction based on students' needs, creating a positive learning environment, communicating and collaborating with colleagues and others, and effectively assessing student learning and reflecting on practice. A grade of 'C' or better is required for course credit.

College/School
Fine Arts

Syllabus
ARED 4900 Residency Syllabus.docx

Requisites and Restrictions

Prerequisite:
ARED 4875

Corequisite:
ARED 4935

Course Information

Course Title
Applications of Teaching

Academic Level (Course Level)
Undergraduate

Course Subject Code
ARED

Course Number
4925

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
ARED 4925: Application of Teaching is designed to foster and support the Residency II experience by collaboratively developing art curricula, identifying effective instructional methods, and implementing assessment strategies to support the needs of all learners. The course will also support each student through the required edTPA teacher assessment. Lastly, this seminar will review all requirements for state teacher licensure and how to prepare, apply, and interview for professional teaching opportunities. A grade of 'C' or better is required for course credit.

College/School
Fine Arts

Syllabus
TTU_ARED 4925 Syllabus.docx

Requisites and Restrictions

Prerequisite:
ARED 4875

Corequisite:
ARED 4900

Course Information

Course Title
First-Year Art Experience

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
1000

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
The course culminates with the completion of the Tennessee Tech Gold Career Readiness Certificate, preparing students for academic success and professional growth.

College/School
Fine Arts

Syllabus
ART 1000 First-Year Art Experience Syllabus - DRAFT.docx

Course Information

Course Title
Introduction to Art

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
1035

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to the understanding and appreciation of art. Emphasis on language of art, its application, and experiencing various art forms.

College/School
Fine Arts

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Humanities/Fine Arts).

Course Information

Course Title
Drawing I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
1045

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
For ART majors only or by permission of the instructor. Introduction to techniques and media of drawing, including two-dimensional and illusionistic skills.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
For art majors only, or by permission of instructor.

Note:
(ARTP 1010, TTP Course)

Course Information

Course Title
Drawing II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
1050

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Prerequisite: ART 1045 or consent of instructor. Refinements of basic techniques with emphasis on individual development.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1045 or consent of instructor.

Note:
(ARTP 1020, TTP Course)

Course Information

Course Title
Intro to Digital Imaging

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
1250

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
For ART majors only or by permission of the instructor. Prerequisite: Introduction to photographic techniques, image capture, formatting and manipulating still imagery in digital media for art and design work.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
For art majors only, or by permission of instructor.

Course Information

Course Title
Creative Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
1320

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
For ART majors only or by permission of the instructor. Creativity is a learnable skill that serves as the foundation for creative practice. Creative Studio will focus on the creative process from ideation and problem solving through self-assessment and iteration. Students will be introduced to creative practice as a skilled discipline and rigorous form of exploration and requires persistent research, analysis, synthesis, and execution. Through a series of engaging hands-on studio projects, students will be encouraged to establish an independently driven creative ideation process.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
For art majors only, or by permission of instructor.

Course Information

Course Title
Foundations Studio I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
1340

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
For ART majors only or by permission of the instructor. Introduction to the elements and principles of design in two-dimensions through studio projects, lectures, demonstrations

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
For art majors only, or by permission of instructor.

Note:
(ARTP 1110, TTP Course)

Course Information

Course Title
Foundations Studio II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
1350

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Introduction to the elements and principles of design in three-dimensions through studio projects, lectures, demonstrations and discussion.

College/School
Fine Arts

Requisites and Restrictions

Note:
(ARTP 1120, TTP Course)

Course Information

Course Title
Art History Survey I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Survey of painting, sculpture, and architecture from prehistoric through medieval.

College/School
Fine Arts

Requisites and Restrictions

Note:
(ARTH 2010, TTP Course)

Course Information

Course Title
Art History Survey II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Survey of painting, sculpture and architecture from Renaissance through the nineteenth century.

College/School
Fine Arts

Requisites and Restrictions

Note:
(ARTH 2020, TTP Course)

Course Information

Course Title
Printmaking Relief

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2040

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite: ART 1340 and ART 1045, Art Education concentration student, or consent of the instructor. Introduction to relief printmaking techniques with concentrated work in the processes of wood cut and linoleum cut.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisite: ART 1340 and ART 1045, Art Education concentration student, or consent of the instructor.

Note:
Student must be in the Art Education concentration, or permission of the instructor required.

Course Information

Course Title
Relief Printmaking

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2041

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
No

Course Description
Prerequisites: ART 1340, ART 1045, or permission of the instructor. Introduction to relief printmaking techniques with concentrated work in wood cut and linoleum cut. The course also introduces collagraph, monotype, intaglio, stencil, and lithographic processes. Particular attention will be given to how printmaking may be integrated into an educational setting. A grade of 'C' or better is required for course credit.

College/School
Fine Arts

Syllabus
TTU ART 2041 Printmaking-Relief.docx

Requisites and Restrictions

Prerequisite:
Prerequisites: ART 1340, ART 1045, or permission of the instructor.

Course Information

Course Title
Intaglio Printmaking

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2050

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1340 and ART 1045 or permission of the instructor. Introduction to intaglio printmaking techniques such as drypoint, etching, aquatint, and collagraph. A grade of "C" or better is required for course credit (Art majors).

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisite: ART 1340 and ART 1045 or permission of the instructor.

Note:
A grade of "C" or better is required for course credit.

Course Information

Course Title
Introduction to Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2210

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Prerequisite: ART 1250 or consent of the instructor. An introduction to the principles andrequirements of digital artwork for reproduction. Basic processes and standard software fordigital design in raster and vector image files, and page layout processes are covered.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1250 or consent of instructor.

Course Information

Course Title
Typography, Text and Image

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2220

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Prerequisite: Art 1250 or consent of the instructor. Introduction to type and the history of letterforms. Design with letterforms in blocks of text and page structure. Interaction of typography with content and the relation of typography to imagery.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1250 or consent of instructor.

Course Information

Course Title
Technical Drawing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2330

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This class will focus on graphic techniques that are used in solving design problems, visually communicating ideas, and documenting precise information by drawing both with instruments and freehand. Students must be a BFA-Wood major or get enrollment permission from the instructor.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Students must be a BFA-Wood major or get enrollment permission from the instructor.

Course Information

Course Title
Comp-Aided Drafting for Artist

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2340

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
No

Course Description
Using CAD software, students will learn processes for designing, modeling and rendering three-dimensional art objects. Students must be a BFA-Metals major or get enrollment permission from the instructor.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Students must be a BFA-Metals major or get enrollment permission from the instructor.

Course Information

Course Title
Painting I, Introduction

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2410

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: ART 1340, ART 1045 or permission of the instructor. Introduction to techniques, media, pictorial devices and color theory.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1340, ART 1045 or permission of the instructor.

Course Information

Course Title
Introduction to Ceramics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2505

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
Introduction to clay as an art medium: handbuilding, wheelthrowing, decorating techniques, glazing and firing processes. The course goes beyond techniques to include how clay has reflected creative ingenuity, function, history, culture, and spirituality.

College/School
Fine Arts

Syllabus
ART 2505 Intro to Clay.docx

Course Information

Course Title
Introduction to Handbuilding

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2510

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Introduction to clay handbuilding. Introductory study of handbuilding, sculptural processes and decorating techniques. A grade of "C" or better is required for course credit (Art majors).

College/School
Fine Arts

Requisites and Restrictions

Note:
A grade of "C" or better is required for course credit.

Course Information

Course Title
Introduction to Wheel-Throwing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2540

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of instructor. Exploration of wheel-throwing with emphasis on decorating and firing, including historical and contemporary overview. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of instructor.

Course Information

Course Title
Introduction to Fibers

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2610

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Introduction to the basics of surface design (dyeing and patterning fabric) and weaving cloth on a floor loom. Emphasis on developing the understanding of safe and successful methods of weaving cloth and patterning fabric.

College/School
Fine Arts

Course Information

Course Title
Introduction to Glass

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2710

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Beginning glassblowing for both majors and non-majors. Vessels and paperweights made at the furnace and coldworking techniques such as stained glass, sandblasting, grinding, and polishing. Modern use of glass and basics of the history of glass will also be covered.

College/School
Fine Arts

Course Information

Course Title
Introduction to Metals

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2810

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Introduction to the basics of metalworking. Emphasis on fabricated jewelry, design, and creativity.

College/School
Fine Arts

Course Information

Course Title
Introduction to Wood

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
2910

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Introduction to the basics of woodworking design and technology-using hand and power tools.

College/School
Fine Arts

Course Information

Course Title
Prof Practices of the Artist

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3099

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ART 1340, ART 1250, ART 1350, ART 1320 , ART 1045, and ART 1050 or ART 2330 or ART 2340 plus at least 9 credits of other art studio classes, or permission of the instructor. Students will research and learn to apply basic professional practices of the artist, including: business practices, marketing/promotion approaches, and identifying, applying for and utilizing resources available to artists. These skills will be used for advancing students' careers as emerging artists or preparing them for further study in the visual arts. This investigation will occur through reading and discussion, visiting presenters, writing, research projects/exercises, and development of individual portfolios.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisite: ART 1340, ART 1250, ART 1350, ART 1320 , ART 1045, and ART 1050 or ART 2330 or ART 2340 and at least 9 credits of other art studio classes, or permission of the instructor.

Course Information

Course Title
Art Since 1900

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
A survey of the major movements in western art history from the late 19th century through the present. It is recommended but not required that students take ART 2120 before taking ART 3130.

College/School
Fine Arts

Course Information

Course Title
History of Crafts

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3150

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
A survey of global history of craft to present. Craft's relationship with aesthetic, material and technical concerns along with social/religious, economic and political influences are investigated.

College/School
Fine Arts

Course Information

Course Title
History of Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3170

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Survey of history of design from the mid-eighteenth century to present. Investigation into the role that economic, political and social revolutions transformed society and design will be the focus. Covering a wide range of fields, including art, architecture, interior design, industrial design and graphic design to introduce the various ways in which design interacts with culture and society.

College/School
Fine Arts

Course Information

Course Title
History of Prints

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3180

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course considers the broad scope of printmaking and its place within art history. Taking a global perspective, this course explores printmaking from printed fabrics in India and Kathe Kollwitz' Expressionist etchings in Germany to Katsushika Hokusai's Japanese woodblock prints and Jose Posada's Calaveras woodcuts in Mexico. The variety of time periods, styles, and cultures surveyed in this course will enrich students' understanding and appreciation of printing processes and the role of the printed image in the history of art.

College/School
Fine Arts

Course Information

Course Title
Medieval Art History

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3190

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course explores the cross-cultural influences within religious art of the Middle Ages from the fall of Rome to the rise of Protestantism (ca 500 - 1500 CE). While focusing on Christian art in Europe, we will also investigate the intersections of Judaism, Christianity, and Islam, considering the ways these faiths are expressed in architecture, sculpture, manuscripts, textiles, and paintings in Europe and the Near East.

College/School
Fine Arts

Course Information

Course Title
Methods and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3205

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
2

Lab Hours

Min:
0

Max:
1

Course Description
Prerequisite: ARED 2020 and full Admission to the Teacher Education Program. This course surveys and applies art educational curricula with classroom lectures, studio methodologies and application that are most significant and relevant for today's students and teachers at all grade levels.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ARED 2020. Full admission to the Teacher Education program.

Course Information

Course Title
Methods and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3206

Credit Hours

Credit Hours:
2

Lecture Hours

Min:
2

Repeatable for Credit:
No

Course Description
Prerequisite: ARED2020 and Undergraduate Benchmarks for Residency 1 & 2. Corequisites: ARED3155. This course provides pre-service art educators with philosophies, methodologies, applications, and contexts for teaching art in K-12 schools. The course presents best practices for assessment, curriculum design, instruction, and school-wide arts integration.

College/School
Fine Arts

Syllabus
ART 3206 Methods & Media Syllabi Fall semester 2025.docx

Requisites and Restrictions

Prerequisite:
ARED 2020

Corequisite:
ARED 3155

Course Information

Course Title
Design Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3210

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Prerequisite: Art 2210 and Art 2220 or consent of the instructor. Concept development and design problems in the development of digital still and moving images, as well as applying more extensive capabilities of raster, vector and page layout software.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 2210 and ART 2220 or consent of instructor.

Course Information

Course Title
Design Studio II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3220

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Prerequisite: ART 3210 or consent of the instructor. Projects developing more advanced andcomplex production techniques, design problems and conceptual skills. Continuing developmentof advanced software skills.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 3210 or consent of instructor.

Course Information

Course Title
Design Studio III

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3230

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Prerequisite: ART 3220 or consent of the instructor. Projects developing visual communicationstrategies, design coherence, technical mastery, and an understanding of productionrequirements. Explores ethical issues and copyright and licensing requirements for publicationin print and online formats.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 3220 or consent of instructor.

Course Information

Course Title
Illustration/Visual Narrative

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3240

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Prerequisite: Art 3210 or consent of the instructor. An introduction to the concepts of digital illustration using vector graphic software. Development of narrative concepts and visual continuity.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 3210 or consent of instructor.

Course Information

Course Title
Independent Studies in Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3250

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
2

Max:
6

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 3210, ART 3220, or permission of the instructor. Directed projects in design arranged between the student and instructor.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisite: ART 3210, ART 3220, or permission of the instructor.

Course Information

Course Title
Independent Studies in Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3251

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
2

Max:
6

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 3210, 3220, or permission of the instructor. Directed projects in design arranged between the student and instructor.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisite: ART 3210, 3220, or permission of the instructor.

Note:
May be repeated up to 9 hours.

Course Information

Course Title
Drawing III

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3310

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: ART 1050 or consent of instructor. Refinement of basic techniques with emphasis on individual development.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1050 or consent of instructor.

Course Information

Course Title
Figure Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3320

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: ART 1050 or consent of instructor. Specific concepts in drawing and/or painting the human form, including gesture and expression, spatial structure and proportion, and the effects of light and drapery on the human form.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1050 or consent of instructor.

Course Information

Course Title
Painting II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3410

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: ART 2410 or consent of instructor. Emphasis on problems in painting and use of materials in expressing the student's ideas.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 2410 or consent of instructor.

Course Information

Course Title
Painting III

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3420

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1340, ART 1050, ART 3410 or permission of instructor. A continuation of studio painting, with emphasis on more advanced techniques, content, and the emergence of individual styles. May be repeated up to 6 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisite: ART 1340, ART 1050, ART 3410 or permission of instructor.

Course Information

Course Title
Painting IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3421

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 3420 or consent of instructor. A continuation of studio painting with emphasis on more advanced techniques, content, and the emergence of individual styles. May be repeated up to 6 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 3420 or consent of instructor.

Course Information

Course Title
Ind Studies in Painting I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3430

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Directed study in painting arranged between the instructor and student. May be repeated up to 12 credit hours

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Ind Studies in Painting II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3431

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Directed study in painting arranged between the instructor and student. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Intermediate Handbuilding

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3511

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisites: ART 2505: Intro to Ceramics OR ART 2510: Intro to Handbuilding, AND ART 1340, ART 1045, ART 1320, or permission of instructor. Further exploration of hand-building with emphasis on decorating and firing. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisites: ART 2505: Intro to Ceramics OR ART 2510: Intro to Handbuilding, AND ART 1340, ART 1045, and ART 1320, or permission of instructor

Course Information

Course Title
Advanced Clay Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3520

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 2505, or both ART 2510 AND ART 2540; ART 3511; ART 3540; ART 1350; ART 1050 or ART 2330 or ART 2340; and ART 2540 or ART 3511; or permission of instructor. Advanced ceramic form and process with emphasis on individual stylistic concept. Additional emphasis on ceramic history, aesthetics and criticism. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisite: ART 2505, or both ART 2510 AND ART 2540; ART 3511; ART 3540; ART 1350; ART 1050 or ART 2330 or ART 2340; and ART 2540 or ART 3511; or permission of instructor.

Course Information

Course Title
Advanced Clay Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3521

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 2505, or both ART 2510 AND ART 2540; ART 3511; ART 3540; ART 1350; ART 1050 or ART 2330 or ART 2340; and ART 2540 or ART 3511; or permission of instructor. Advanced ceramic form and process with emphasis on individual stylistic concept. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisite: ART 2505, or both ART 2510 AND ART 2540; ART 3511; ART 3540; ART 1350; ART 1050 or ART 2330 or ART 2340; and ART 2540 or ART 3511; or permission of instructor.

Course Information

Course Title
Independent Studies-Clay

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3530

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
2

Max:
6

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 2505 OR both ART 2510 AND ART 2540, ART 3511, ART 3540, ART 1350, ART 1050 or ART2330 or ART 2340, ART 2540 OR ART 3511, or permission of the instructor. Independent production studies by arrangement with the instructor, emphasis on advanced creative design and skills. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisite: ART 2505 OR both ART 2510 AND ART 2540, ART 3511, ART 3540, ART 1350, ART 1050 or ART2330 or ART 2340, ART 2540 OR ART 3511, or permission of the instructor.

Course Information

Course Title
Independent Studies-Clay

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3531

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
2

Max:
6

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 2505 OR both ART 2510 AND ART 2540, ART 3511, ART 3540, ART 1350; ART 1050 or ART2330 or ART 2340, and ART 2540 OR ART 3511, or permission of the instructor. Independent production studies by arrangement with the instructor, emphasis on advanced creative design and skills. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisite: ART 2505 OR both ART 2510 AND ART 2540, ART 3511, ART 3540, ART 1350; ART 1050 or ART2330 or ART 2340, and ART 2540 OR ART 3511, or permission of the instructor.

Course Information

Course Title
Intermediate Wheel-Throwing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3540

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisites: ART 2505 or ART 2540, and ART 1340, ART 1045, ART 1320, or permission of the instructor. Continued advanced skill development of wheel-throwing techniques. Independent glaze formulation and testing introduction.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisites: ART 2505 or ART 2540, and ART 1340, ART 1045, ART 1320, or permission of the instructor

Course Information

Course Title
Weaving I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3610

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1340, ART 1045, ART 2610 or permission of instructor. Focus is on strengthening the student’s technical knowledge and design capabilities of woven fiber structures, mainly for wearables and home furnishings. Explore various yarns to create interesting cloth. Learn several weave structures through samplers that include double weave cloth, lace waves, twill, and color and weave effects. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1340, ART 1045, ART 2610 or permission of instructor.

Course Information

Course Title
Weaving II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3611

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisites: ART 1350, ART 1050 or 2330, and ART 3610 or permission of instructor. Explore more complex double weave structures and how to design interesting fabric with structure in mind. Explore new ways of thinking about cloth that includes weaving with more contemporary fiber. Emphasis is on transforming one's design concepts into woven work that is sound in structure, visually exciting, and contemporary in design. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1350, ART 1050 or ART 2330 and ART 3610 or permission of instructor.

Course Information

Course Title
Surface Design I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3620

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1340, ART 1045, ART 2610 or permission of instructor. Develop skills in a variety of surface application techniques using natural fabrics and Fiber Reactive dyes. Application methods include painting, block printing, dextrin resist, vinyl transfer, discharge and devore. Emphasis is placed on how to use these surface techniques to create unique and visually dynamic designs. May be repeated up to 12 credit hours..

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1340, ART 1045, ART 2610 or permission of instructor.

Course Information

Course Title
Surface Design II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3621

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1350, ART 1050 or ART 2330, and ART 3620 or permission of instructor. Screen-printing for repeat pattern on yardage and large-scale fabric work with emphasis on developing technical skill and a personal design aesthetic. Explore designs and design materials, learn methods for putting a design into repeat, and register print to produce an all-over multi-colored image on fabric. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1350, ART 1050 or ART 2330, and ART 3620 or permission of instructor.

Course Information

Course Title
Surface Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3625

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
No

Course Description
Art 3625 explores the designing of cloth through techniques and methods of printing, including: mono-printing, silkscreen printing, and block printing. Students will be introduced to a variety of technical processes through demonstrations and hands-on learning. They will learn about contemporary practices in fiber art through readings, lectures, and research. Students will learn the vocabulary and language of Fiber through critiques and a material-based process of making. Individual instruction will be given to students to accommodate project ideas and oversee projects through completion.

College/School
Fine Arts

Syllabus
Art 3625 Surface Spring 2026 2 credit Hours.docx

Requisites and Restrictions

Prerequisite:
ART 2610

Course Information

Course Title
Independent Study-Fibers

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3630

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Individual fibers projects with emphasis on concept and design in weaving or surface design. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Independent Study-Fibers

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3631

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Individual fibers projects with emphasis on concept and design in weaving or surface design. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
3-D Structures in Fibers

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3640

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
No

Course Description
Prerequiste: Art 2610. Introduction to various approaches of constructing fiver materials into 3-D forms with emphasis on technical skill development.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 2610

Course Information

Course Title
3-D Structures in Fibers II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3641

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Prerequisites: ART 2610 and ART 3640. Advanced level continuation of 3-D Structures in Fibers. Students will expand their experimentation of constructing fiber materials into 3-D forms. Advanced level of technical abilities will be developed alongside demonstrated development of individual visual language in 3-D forms.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 2610 and ART 3640.

Course Information

Course Title
Fiber Art Studio I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3650

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
No

Course Description
Prerequisites: ART 2610, and ART 3640 or ART 3610 or ART 3620. Introduction to a broad range of traditional and experimental practices in fiber art. Emphasis on personal solutions to problems that demonstrate knowledge and understanding of process. Focus on the creative exploration and inventive approach to the development of one's own visual language in fiber art.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 2610, plus one of the following: ART 3640, or ART 3610 or ART 3620.

Course Information

Course Title
Fiber Art Studio II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3651

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisites: ART 2610 and ART 3650. Advanced level continuation of Fiber Art Studio I. students will expand their experimentation and practices in fiber art. Emphasis on personal solutions to problems that demonstrate knowledge and understanding of process. Focus on the creative exploration and inventive approach to the development of one's own visual language in fiber art.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 2610 and ART 3650.

Course Information

Course Title
Intermediate Glass Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3710

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1045, ART 1340, ART 2710 or permission of instructor. Intermediate glass blowing and coldworking, introduction to mold making, and exposure to a variety of professional artists' work. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1340, ART 1045, ART 2710 or permission of instructor.

Course Information

Course Title
Intermediate Glass Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3711

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 2710 or permission of instructor. Intermediate glass blowing and coldworking, introduction to mold making and exposure to a variety of professional artists' work. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 2710 or permission of instructor.

Course Information

Course Title
Advanced Glass Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3720

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1350, ART 1050 or ART 2330 and ART 3710 and ART 3711 or permission of instructor. Advanced glassblowing and sandblasting, etching, slumping, and different types of glass forming. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1350, ART 1050 or ART 2330 and ART 3710 and ART 3711 or permission of instructor.

Course Information

Course Title
Advanced Glass Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3721

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1350, ART 1050 or ART 2330 and ART 3710 and ART 3711 or permission of instructor. Advanced glassblowing and sandblasting, etching, slumping, and different types of glass forming. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1350, ART 1050 or ART 2330 and ART 3710 and ART 3711 or permission of instructor.

Course Information

Course Title
Independent Study-Glass

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3730

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Individual studies in glass through specific projects arranged between the instructor and student. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Independent Study-Glass

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3731

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Individual studies in glass through specific projects arranged between the instructor and student. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Warm Glass Process

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3740

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Introduction to warm glass techniques, including but not limited to slumping, fusing, kiln casting as well as different types of mold making and creative problem solving.

College/School
Fine Arts

Course Information

Course Title
Prod Processes in Glass

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3750

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
This class is designed to introduce students to a variety of hot glass methods used in multiple object production making. Both off-hand and mold-blowing will be covered. Entrepreneurial application, such as marketplace viability for production lines versus one- of-a-kind work, pricing and promotion, will also be examined to ensure increased career readiness.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 3710 or ART 3711.

Course Information

Course Title
Lampwork Glass Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3760

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Introduction to Lampwork glass will familiarize students with glass as a functional and sculptural material via the torch. Glass techniques including, but not limited to Beads, Marbles, Sculpting Volumetric and Solid forms, Vacuum Encasement and fusing will be explored. Questions of function and aesthetics, and an in-depth look at form and meaning will be the basis for this course. Glass design with emphasis on professional development and personal style. A grade of 'C' or better is required for course credit.

College/School
Fine Arts

Syllabus
Lampworking Spring 2024 Syllabus .docx

Course Information

Course Title
Metals Studio-Metalsmithing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3810

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisites: ART 1045: Drawing I or permission of instructor. The techniques and aesthetics of metalsmithing; emphasis on manipulation of sheet metal for jewelry and hollowware with studies in casting, non-ferrous forging, chasing, raising and other techniques. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisites: ART 1045, or permission of instructor.

Course Information

Course Title
Metals Studio-Metalsmithing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3811

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisites: ART 1045: Drawing I or permission of the instructor. The techniques and aesthetics of metalsmithing; emphasis on manipulation of sheet metal for jewelry and hollowware with studies in casting, non-ferrous forging, chasing, raising and other techniques. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1045 or permission of the instructor.

Course Information

Course Title
Metals Studio-Blacksmithing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3820

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1045 or permission of instructor. The techniques and aesthetics of metalsmithing; emphasis on manipulation of sheet metal for jewelry and hollowware with studies in casting, non-ferrous forging, chasing, raising and other techniques. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1045 or permission of instructor.

Course Information

Course Title
Metals Studio-Blacksmithing

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3821

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisites: ART 1350, ART 1050 or ART 2330, and ART 3820 OR ART 2340: CAD for the Artist, and ART 2810 or permission of instructor. Continuing development in steel as a decorative, functional and sculptural material. Technical assignments exploring traditional blacksmithing techniques progress to the development of an individual’s style of work. May be repeated up to 6 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1350, ART 1050 or ART 2330, and ART 3820 OR ART 2340: CAD for the Artist, and ART 2810 or permission of instructor.

Course Information

Course Title
Independent Study-Metals

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3830

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Independent production studies and emphasis on advanced creative design and skills in either light metals or blacksmithing. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Independent Study-Metals

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3831

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Independent production studies and emphasis on advanced creative design and skills in either light metals or blacksmithing. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Intermediate Wood Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3910

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1340, ART 1045, ART 2910 or permission of instructor. Studies in the techniques of woodworking, furniture construction, and design. Hand and power tools, joinery, bending, stack lamination, turning, carving and finishing. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1340, ART 1045, ART 2910 or permission of instructor.

Course Information

Course Title
Intermediate Wood Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3911

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1340, ART 1045, ART 2910 or permission of instructor. Studies in the techniques of woodworking, furniture construction, and design. Hand and power tools, joinery, bending, stack lamination, turning, carving and finishing. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1340, ART 1045, ART 2910 or permission of instructor.

Course Information

Course Title
Advanced Wood Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3920

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1350, ART 1050 or ART 2330 and ART 3910 and ART 3911 or permission of instructor. Studies in advanced woodworking construction. Emphasis on cabinetry or seating, ergonomics, structure and design. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1350, ART 1050 or ART 2330 and ART 3910 and ART 3911 or permission of instructor.

Course Information

Course Title
Advanced Wood Studio

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3921

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 1350, ART 1050 or ART 2330 and ART 3910 and ART 3911 or permission of instructor. Studies in advanced woodworking construction. Emphasis on cabinetry or seating, ergonomics, structure and design. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1350, ART 1050 or ART 2330 and ART 3910 and ART 3911 or permission of instructor.

Course Information

Course Title
Ind Studies in Woodworking

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3930

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Individual approaches to working in wood through specific projects arranged with the instructor. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Ind Studies in Woodworking

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3931

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Individual approaches to working in wood through specific projects arranged with the instructor. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Woodturning

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
3940

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Principles and applied skills of spindle, faceplate, bowl, and end grain turning.

College/School
Fine Arts

Course Information

Course Title
Senior Capstone

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4000

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
No

Course Description
Prerequisites: ART 1340, ART 1250, ART 1350, ART 1045, ART 1320, and one of the following: ART 1050, or ART 2330 or ART 2340 and 15 credits of studio electives, or permission of the instructor. The senior capstone is intended to verify the student's ability to conceive, plan and execute a small body of work appropriate to the liberal arts degree. The senior capstone group exhibition body of work should represent a cohesive, aesthetically unified, group of works fulfilling the senior capstone project. Additionally, students will research and become familiar with practices of the artist, including marketing/promotion, exhibition, artist presentations and studio operations. A grade of 'C' or better is required for credit.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisites: ART 1340, ART 1250, ART 1350, ART 1045, ART 1320, and one of the following: ART 1050, or ART 2330 or ART 2340 and 15 credits of studio electives, or permission of the instructor.

Note:
A grade of "C" or better is required for course credit.

Course Information

Course Title
Art Crtcsm & Aesth Undrstnding

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4040

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Successful completion of 3000 level studio classes. Aesthetic theories and criticism as related to craft material and concepts.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Successful completion of 3000 level studio classes.

Course Information

Course Title
Art Tour

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Standing as a declared BFA or BS-Studio Arts major and ART 1035 or permission of the instructor. A 1-2 week trip to view internationally recognized art. Additional preparatory studies and written assignments will be required. May be repeated for credit if trip is different.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Prerequisite: Standing as a declared BFA or BS-Studio Arts major and ART 1035 or permission of the instructor

Course Information

Course Title
Senior Thesis/Dual-Focus I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4111

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Prerequisites: ART 1320, ART 1340, ART 1250, ART 1350, ART 1045 , and one of the following: ART 1050, ART 2330 or ART 2340, and 6 credits of each core 1 and core 2 studio courses or permission of instructor. Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work. A grade of 'C' or better is required for credit.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1320, ART 1340, ART 1250, ART 1350, ART 1045, ART 1050/ART 2330 or ART 2340, and 6 credits of each core 1 and core 2 studio courses or permission of instructor.

Note:
A grade of "C" or better is required for course credit.

Course Information

Course Title
Senior Thesis/Dual-Focus II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4112

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Prerequisites: ART 1320, ART 1340, ART 1250, ART 1350, ART 1045, and one of the following: ART 1050, ART 2330 or ART 2340, and 6 credits of each core I and core 2 studio courses or permission of instructor. Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work. A grade of 'C' or better is required for credit.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 1320, ART 1340, ART 1250, ART 1350, ART 1045, ART 1050/ART 2330 or ART 2340, and 6 credits of each core 1 and core 2 studio courses or permission of instructor.

Note:
A grade of "C" or better is required for course credit.

Course Information

Course Title
Senior Thesis/Dual-Focus III

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4113

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Prerequisites: ART 4111, ART 4112 or permission of instructor. Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work. A grade of 'C' or better is required for course credit.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 4111, ART 4112 or permission of instructor.

Note:
A grade of "C" or better is required for course credit.

Course Information

Course Title
Senior Thesis/Dual-Focus IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4114

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Prerequisites: ART 4111, ART 4112 or permission of instructor. Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work. A grade of 'C' or better is required for course credit.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 4111, ART 4112 or permission of instructor.

Note:
A grade of "C" or better is required for course credit.

Course Information

Course Title
Design Practicum

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4211

Credit Hours

Credit Hours:
4

Other Hours

Min:
8

Course Description
Prerequisite: ART 3230 or permission of instructor. Guided projects developing specific visual communications solutions to real world problems, addressing individual, organizational or service-learning opportunities. Project proposal, assessment and evaluation schedule to be approved by the instructor prior to enrollment.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 3230 or permission of instructor.

Course Information

Course Title
Design Practicum

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4212

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
Guided projects developing specific visual communications solutions to real world problems, addressing individual, organizational or service learning opportunities. Project proposal, assessment and evaluation schedule to be approved by the instructor prior to enrollment.

College/School
Fine Arts

Syllabus
ART_4212 final.docx

Requisites and Restrictions

Prerequisite:
ART 3230 and ART 3240 or consent of instructor.

Course Information

Course Title
Design Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4221

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Can be repeated up to 6 hours in place of ART 4211. Guided projects developing specific visual communications solutions to real world problems, addressing individual, organizational or service learning opportunities. Project proposal, assessment and evaluation schedule to be approved by the instructor prior to enrollment.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 4231 and ART 3240, and ART 4212.

Note:
Can be repeated up to 6 hours in place of ART 4211: Design Practicum with permission of instructor.

Course Information

Course Title
Design Portfolio I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4231

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ART 3230. Development and presentation of a professional quality portfolio of artwork and projects in digital media. A grade of 'C' or better is required for course credit.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 3230

Course Information

Course Title
Design Portfolio II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4232

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: ART 4231. Continued development and presentation of a professional quality portfolio of artwork and projects in digital media.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 4231

Course Information

Course Title
Special Problems in Design

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4240

Credit Hours

Credit Hours:
4

Other Hours

Min:
8

Course Description
Prerequisite: ART 3210 or consent of the instructor. Targeted application of digital media skillsto content development and problem solving in individual and team design projects.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 3210 or consent of the instructor.

Course Information

Course Title
Ind Studies in Drawing I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4310

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Directed study in selected drawing media in specific projects arranged between the instructor and student. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Ind Studies in Drawing II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4311

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Directed study in selected drawing media in specific projects arranged between the instructor and student. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Senior Thesis in Painting I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4411

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a sstylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Painting II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4412

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Painting III

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4413

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Painting IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4414

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Clay II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4512

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Clay I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4511

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Clay III

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4513

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Clay IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4514

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Special Problems in Clay

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4540

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 2540, ART 3511 and permission of the instructor. Periodic advanced studio/lecture courses covering special topics not addressed in regular course offerings. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 2540, ART 3511 and permission of the instructor.

Course Information

Course Title
Senior Thesis in Fibers I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4611

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Fibers II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4612

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Fibers III

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4613

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Fibers IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4614

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Special Problems in Fiber

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4640

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
2

Max:
6

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: ART 2610 or permission of the instructor. Individual studio projects agreed upon by the instructor and student. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
ART 2610 or permission of the instructor.

Course Information

Course Title
Senior Thesis in Glass I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4711

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Glass II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4712

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Glass III

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4713

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Glass IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4714

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work.

College/School
Fine Arts

Course Information

Course Title
Special Problems in Glass

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4740

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Individual studio projects agreed upon by the instructor and student. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Senior Thesis in Metal I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4811

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Metal III

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4813

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Metals II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4812

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Metal IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4814

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work

College/School
Fine Arts

Course Information

Course Title
Special Problems in Metal

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4840

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Individual studio projects agreed upon by the instructor and student. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Senior Thesis in Wood I

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4911

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Wood II

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4912

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Wood III

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4913

Credit Hours

Credit Hours:
3

Other Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work

College/School
Fine Arts

Course Information

Course Title
Senior Thesis in Wood IV

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4914

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
6

Course Description
Guided individual studio projects leading to a professional level of technical, conceptual, and design accomplishment in a stylistically coherent body of work

College/School
Fine Arts

Course Information

Course Title
Special Problems In Wood

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4940

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Permission of the instructor. Individual studio projects agreed upon by the instructor and student. May be repeated up to 12 credit hours.

College/School
Fine Arts

Requisites and Restrictions

Prerequisite:
Permission of the instructor.

Course Information

Course Title
Special Problems in Art

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4950

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Individual study on a topic agreed upon by the instructor and the student.

College/School
Fine Arts

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4960

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Individual study on a topic agreed upon by the instructor and the student.

College/School
Fine Arts

Course Information

Course Title
Special Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
ART

Course Number
4970

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Course Description
Individual study on a topic agreed upon by the instructor and the student.

College/School
Fine Arts

Sociology and Pol Science Department

Professor Maxwell Chairperson; Professors Gunter, Haynes, Norris, Raymondo; Associate Professors Anderson, Carlton, Stanger; Assistant Professors Harding, McGauvran, Navarro, Seiler, Wells; Instructors Brown, Cook

The Department of Sociology and Political Science offers a Bachelor of Science degree in both Political Science and Sociology. Within the B.S. Sociology degree, three concentrations are offered: a concentration in Criminology & Criminal Justice, a concentration in Social Work, and a concentration in Sociology. Within the B.S. Political Science degree, two concentrations are offered: a concentration in political science; and a concentration in legal studies. The Department of Sociology and Political Science also offers undergraduate minors in Criminal Justice, Political Science, Philosophy, Anthropology, and Sociology; and a graduate minor in Sociology. (Note: In some cases, completing a minor will require transfer credit or on-line hours. Many of the courses in the department are restricted to declared majors.)

Political Science

A Bachelor of Science Degree in Political Science is offered with courses in each of the six main areas of specialization within the discipline: International Relations, Comparative Politics, Political Theory, American Government, State and Local Government, and Public Administration. A student who majors in Political Science at Tech is provided a broad liberal arts education with adequate specialization in the major and ample opportunity to take elective courses in related areas. Graduates are well-prepared for a number of options: graduate studies, law school, employment in government or private business.

Anthropology

Cultural Anthropology courses are offered when staff are available.

Sociology

The Sociology curriculum has three main purposes: (1) to aid students in understanding the roles of social forces and ideas in shaping modern society; (2) to provide a well-rounded education preparing the student for a wide range of occupations, particularly those which work directly with people or with categories or groups of people; and (3) to provide a sound academic background for graduate study in sociology or for such professions as law or the ministry.

Criminal Justice

Advisor: Dr. Mannle

The Criminal Justice Program offers a baccalaureate (B.S.) concentration, and a minor (15 hours) in criminal justice. The B.S. concentration involves a major in Sociology with a large proportion of course work in criminal justice.

Those who complete the B.S. degree will have a sound foundation that prepares them to compete for positions in law enforcement, corrections and social service agencies, or for admission to law school.

Social Work

The Department of Sociology and Political Science offers a social work concentration for those students interested in a career in social work.

Social work is a "helping profession" that assists people who face difficult problems. Some social workers do their work in family service agencies dealing with marriage, health and child welfare problems. Others work in a medical setting providing assistance to patients and their relatives during a health crisis or a death. Still others work in the area of corrections assisting juvenile and adult law violators in rehabilitation. Social workers can also be found in public welfare agencies assisting the poor and disabled and in industry assisting employees with chemical abuse problems.

Philosophy

Philosophy courses are designed to help students acquire appreciation for the values and modes of reflection appropriate for the philosophical mind. They seek to stimulate interest in the ultimate human questions and to help students understand the proposed answers to those questions given by thinkers across the centuries. A baccalaureate minor is available and is especially appropriate for those interested in the humanities, the social sciences, and the professions.

Sociology Major

The Sociology Major at Tennessee Tech University leads to the Bachelor of Science Degree and includes three tracks: a Bachelor of Science in Sociology; a Bachelor of Science in Sociology with a concentration in criminal justice; and, a Bachelor of Science in Sociology with a concentration in social work.

Core of Required Courses Common to the Major (all three tracks): (27 hours)

- SOC 1010 Introduction to Sociology
- SOC 3100 Sociological Theory
- SOC 3900 Introduction to Social Research
- SOC 3910 Social Science Statistical Analysis
- SOC 4920 (5920) Data Analysis and Management or
- SOC 4930 (5930) Field Research Methods
- Foreign Language (3) (Culture and Civilization courses do not qualify)
- Electives in Social Sciences/Philosophy (9)

Students will take 9 hours of elective courses in the social sciences/philosophy consisting of any course that meets the Social/Behavioral Sciences General Education Requirement, and/or are from the disciplines of: anthropology, criminal justice, economics, geography, philosophy, political science, psychology, social work, or sociology.

Note: For the criminal justice concentration 3 hours of the electives in Social Sciences/Philosophy must be at the upper division level. The social work concentration meets the Social Sciences/Philosophy requirement by 9 hours embedded in the major (PSY 1030, PSY elective, and PHIL 2250).

Additional graduation requirements must be satisfied including but not limited to: a total of 120 semester hours; a total of 36 hours earned at the upper division (3000 or 4000 level courses); and, satisfactory completion of the general education requirements. Students are responsible for ensuring that they meet all requirements for graduation, and should consult with their academic advisor on a regular basis.

To complete the general sociology track:

In addition to the required core of 27 hours, students will complete an additional 21 hours of elective courses chosen from courses with a sociology, criminal justice, or social work prefix. **A minimum of 15 hours must be at the upper division level.**

Total hours in the major: 48.

Total hours of sociology/SW/CJ courses: 36-45.

Total hours required for graduation: 120.

To complete the criminal justice track:

The Criminal Justice Program offers a baccalaureate (B.S.) concentration, in criminal justice. The B.S. concentration involves a major in Sociology with a large proportion of course work in criminal justice.

Those who complete the B.S. degree will have a sound foundation that prepares them to compete for positions in law enforcement, corrections and social service agencies, or for admission to law school.

To complete the criminal justice track:

In addition to the required core of 27 hours, students will also be required to take:

- CJ 2660 Criminology
- CJ 2700 Introduction to Law Enforcement
- CJ 2850 Criminal Law and Procedure
- CJ 3610 Advanced Criminal Procedure
- CJ 3650 Juvenile Delinquency
- CJ 4660 (5660) Corrections
- PHIL 1030 Introduction to Philosophy
- POLS 1000 American Government

Students will compete an additional 12 hours of elective courses **at the upper division level** chosen from courses with a sociology, criminal justice, or social work prefix.

Total hours in the major: 63

Total hours of sociology/SW/CJ courses: 45-54.

Total hours required for graduation: 120.

To complete the social work track:

In addition to the required 27 hours, students will also be required to take:

- SW 1800 Introduction to Social Work
- SW 4100 (5100) Probation and Parole
- SW 4120 (5120) Case Management
- SW 4900 (5900) Internship
- PHIL 2250 Introductory Ethics
- POLS 1000 American Government
- PSY 2010 General Psychology
- PSY Additional Course or EDPY 2200 Educational Psychology (3)

Students will complete an additional 15 hours of elective courses chosen from courses with a sociology, criminal justice, or social work prefix. A **minimum of 9 hours** must be at the upper division level

Total hours in the major: 57.

Total hours of sociology/SW/CJ courses: 42-51.

Total hours required for graduation: 120.

Political Science Major

The Political Science major at Tennessee Tech University is part of a 120-hour degree program with at least 36 of the required 120 hours at the upper division level (courses numbered at the 3000 or 4000 level). The Political Science Major at Tennessee Tech University leads to the Bachelor of Science Degree and includes three tracks: a Bachelor of Science in Political Science; a Bachelor of Science in Political Science with a concentration in Legal Studies; and a Bachelor of Science in Political Science with a concentration in International Relations and Comparative Government.

Students who intend to attend law school are encouraged to declare a pre-law Career Track. These students may consider a major of Political Science with a concentration in Legal Studies, but this major is not required for admission to law school.

The departmental requirements for the major consist of a total of 54 hours including:

- POLS 1000 - American Government Credit 3.
- POLS 1100 - Introduction to Political Science Credit 3.
- Electives in Political Science Credit 24.
- Foreign Language Credit 6. (At least 3 hours must be in a language course. The other 3 hours may be in language or in a culture related course.)

Computer skills–

- DS 2810 - Computer Applications in Business Credit 3.
- History–upper division course Credit 6.
- Social Science, Criminal Justice, or Philosophy Electives Credit 6.
- English-upper division course Credit 3.

Total departmental requirements for the major: 54 hrs.

Programs

CJ-MIN - Criminal Justice Minor

Program Overview

Program Long Title
Criminal Justice Minor

College/School
Arts and Sciences

Department(s)
Sociology and Pol Science

Requirements

Simple Requirements

Minor in Criminal Justice (CJ)

A minor in Criminal Justice consists of 15 hours in CJ courses (six hours must be at the 3000-4000 level).

CLS-MIN - Cyber Crime, Law and Society Minor

Program Overview

Program Long Title
Cyber Crime, Law and Society Minor

College/School
Arts and Sciences

Department(s)
Sociology and Pol Science

Requirements

Simple Requirements

Cybercrime, Law, and Society Minor

Type
Completion Requirement

Core Courses

Complete ALL of the following Courses:

- CSC2570 - Intro to Cybersecurity/Privacy
- POLS1030 - American Government
- SOC1010 - Intro to Sociology

POLS 1030 - American Government: Cyber Special Topics (General Education- will include all General Education material with additional Cyber content and is open to any major)

SOC 1010 - Introduction to Sociology: Cyber Special Topics (General Education- will include all General Education material with additional Cyber content and is open to any major)

And six additional hours from the list of courses above, and/or below:

Earn at least 6 credits from the following:

- SOC3640 - Cybercrime
  OR CJ3640 - Cybercrime
- SOC3175 - Cyberlaw
  OR CJ3175 - Cyberlaw
- POLS3140 - Cyber Terrorism
- POLS3330 - State and Local Government
- POLS3690 - Leadership in Cybersecurity
- POLS3020 - Responsible AI
  OR SOC3020 - Responsible AI
  OR CJ3020 - Responsible AI
  OR SW3020 - Responsible AI

Additional Comments:
Substitutions are possible (for example, to include any relevant "Special Topics" courses) but require the approval of the program administrator.

POLS-BS - Political Science, B.S.

Program Overview

Program Long Title
Political Science, B.S.

College/School
Arts and Sciences

Department(s)
Sociology and Pol Science

Requirements

Simple Requirements

Political Science, B.S. (120 hours)

Type
Completion Requirement

Flight Foundation - Communication (9 hours)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning and Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Political Science (BS) majors take MATH 1530.

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression - Literature (3 hours)

Complete ANY of the following Courses:

- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

Political Science, B.S. Core

Complete ALL of the following Courses:

- POLS1030 - American Government
- POLS1100 - Intro to Political Science
- POLS1001 - Career Readiness in Sociology and Political Science
- POLS3000 - Data Analysis

Political Science, B.S. Core

Political Science Electives (21 hours)

21 hours of Political Science Electives are required.

A minimum of six hours of POLS courses must be taken at the 3000-4000 level.

Additional Program Requirements

Complete ALL of the following Courses:

- SOC1010 - Intro to Sociology
- DS2810 - DS 2810: Computer Applications in Organizations **OR** CSC2570 - Intro to Cybersecurity/Privacy
- MATH1530 - Introductory Statistics

Additional Program Requirements

History Upper Division Electives (6 hours):

Complete six hours form HIST 3000-4000 level electives.

Social Science, CJ, or PHIL Electives (6 hours):

Complete six hours from ANTH, CJ, ECON, GEOG, PHIL, POLS, PSY, SOC, or WGS electives.

English Upper Division Elective (3 hours);

Complete three hours of ENGL 3000-4000 level electives.

Additional Program Requirements

Foreign Language (6 hours):

Complete six hours from the following:

FREN 1010, 1020, 2010, 2020, 2510 **or**

GERM 1010, 1020, 2010, 2020, 2520, 3520 **or**

SPAN 1010, 1020, 2010, 2020, 2510, 2550, 3510, 3550

Six hours of foreign language in a sequence or three hours foreign language/three hours of culture & civilization

Elective Credits

Additional free electives are required to complete 120 earned hours.

Electives (27 hours)

Flight Foundations Flexible Elective (1 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy.

Flight Foundation Core - Financial Literacy or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Additional Comments:
A total of 120 hours is required for graduation with a minimum of 36 hours at the upper division level.

Degree Map

Degree Map Name
Degree Plan - Political Science, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select

- POLS1030 - American Government

Actual Credits 3

Requirement Select

- POLS1100 - Intro to Political Science

Actual Credits 3

Requirement Select

- POLS1001: Career Readiness in Political Science (1 cr.) (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Foreign Language (Generic)

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- SOC1010 - Intro to Sociology

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Foreign Language (Generic)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Political Science elective (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Political Science Electives (6 cr.) (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- DS2810 - DS 2810: Computer Applications in Organizations
  OR
- CSC2570 - Intro to Cybersecurity/Privacy

Actual Credits 3

Requirement Select
- HIST Upper Division Elective (Generic)

Actual Credits 3

Requirement Select
- POLS3000 - Data Analysis

Actual Credits 3

Requirement Select
- Political Science Electives (6 cr.) (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- ENGL Upper Division Elective (3 cr.) (Generic)

Actual Credits 3

Requirement Select
- Electives (12 cr.) (Generic)

Actual Credits 12

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- HIST Upper Division Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- Political Science Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select

- Social Science/ Criminal Justice / Philosophy electives (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- Electives (15 cr.)
  (Generic)

Actual Credits 15

Requirement Select

- A total of 120 hours is required for graduation with a minimum of 36 hours at the upper division level. 2 Students need to take a general elective (it does not have to be a one-hour course). Consult your academic advisor.
  (Generic)

Actual Credits -

POLS-LS - Political Science, Legal Studies Concentration, B.S.

Program Overview

Program Long Title

Political Science, Legal Studies Concentration, B.S.

College/School

Arts and Sciences

Department(s)

Sociology and Pol Science

Requirements

Simple Requirements

Political Science, Legal Studies Concentration (120 hours)

Type
Completion Requirement

Flight Foundation - Communication (9 hours)

Complete ALL of the following Course Sets:

- Communication (GEDC) - Writing
- Communication (GEDC) - Oral Communication

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (8 hours)

Earn at least 8 credits from the following:

- Scientific Reasoning (FFSR)

Political Science, Legal Studies Concentration Core

Complete ALL of the following Courses:

- POLS1030 - American Government
- POLS1100 - Intro to Political Science
- POLS1001 - Career Readiness in Sociology and Political Science
- POLS3000 - Data Analysis

Political Science, Legal Studies Concentration Core

Legal Studies Electives (15 hours):

Select three hours from: CJ 2850, 3000, LAW 2810, 4720, POLS 2250, 3110, 3120, 3810, 4310, 4320, or 4910, HIST (Special topics in Legal Studies content)

Political Science, Legal Studies Concentration Core

Upper Division POLS electives (12 hours):

Take 12 hours from POLS upper division (3000-4000 level) electives.

Additional Program Requirements

Complete ALL of the following Courses:

- SOC1010 - Intro to Sociology
- DS2810 - DS 2810: Computer Applications in Organizations **OR** CSC2570 - Intro to Cybersecurity/Privacy
- MATH1530 - Introductory Statistics

Additional Program Requirements

History Upper Division Electives (6 hours):

Complete six hours form HIST 3000-4000 level electives.

English Upper Division Elective (3 hours);

Complete three hours of ENGL 3000-4000 level electives.

Additional Program Requirements

Foreign Language (6 hours):

Complete six hours from the following:

FREN 1010, 1020, 2010, 2020, 2510 **or**

GERM 1010, 1020, 2010, 2020, 2520, 3520 **or**

SPAN 1010, 1020, 2010, 2020, 2510, 2550, 3510, 3550

Six hours of foreign language in a sequence or three hours foreign language/three hours of culture & civilization

Elective Credits

Electives (27 hours)
Additional free electives are required to complete 120 earned hours.

Flight Foundation Core - Financial or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Degree Map

Degree Map Name
Degree Plan - Political Science, Legal Studies Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	13

Requirement Select

- POLS1001 (1 cr.)
  (Generic)

Actual Credits 1

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Foreign Language
  (Generic)

Actual Credits 3

Requirement Select

- POLS1030 - American Government

Actual Credits 3

Requirement Select

- POLS1100 - Intro to Political Science

Actual Credits 3

Requirement Select

- Notes: 1 Six hours of foreign language in a sequence or three hours foreign language/three hours of culture & civilization.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Freshman Year	Second Semester	16

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- Foreign Language
  (Generic)

Actual Credits 3

Requirement Select
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- MATH1530 - Introductory Statistics

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- Notes: 1 Six hours of foreign language in a sequence or three hours foreign language/three hours of culture & civilization.
  (Generic)

Actual Credits -

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- DS2810 - DS 2810: Computer Applications in Organizations
  OR
- CSC2570 - Intro to Cybersecurity/Privacy

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- POLS Upper Division Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- POLS3000 - Data Analysis

Actual Credits 3

Requirement Select
- CJ2850 - Criminal Law & Procedure
  OR
- CJ3000 - Rules of Evidence
  OR
- POLS2250 - Mock Trial
  OR
- POLS3110 - Intro-Legal Reasoning/Analysis
  OR
- POLS3810 - Judicial Process
  OR
- POLS4310 - Con Law I:Strug-Fed Pwer, Act
  OR
- POLS4910 - Seminar in Public Law
  OR
- POLS4320 - Con Law II:Civ Lib & Civ Right

Actual Credits 6

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select

- POLS upper division elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select

- CJ2850 - Criminal Law & Procedure
  OR
- CJ3000 - Rules of Evidence
  OR
- POLS2250 - Mock Trial
  OR
- POLS3110 - Intro-Legal Reasoning/Analysis
  OR
- POLS3810 - Judicial Process
  OR
- POLS4310 - Con Law I:Strug-Fed Pwer, Act
  OR
- POLS4320 - Con Law II:Civ Lib & Civ Right
  OR
- POLS4910 - Seminar in Public Law

Actual Credits 6

Requirement Select

- ENGL Upper Division Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select

- POLS Upper Division electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select

- LAW2810 - Business Legal Env & Ethics
  OR
- LAW4720 - Business Law
  OR
- POLS3120 - Legal Research and Writing
  OR
- POLS or HIST Special Topics (Legal Studies Content)
  (Generic)

Actual Credits 3

Requirement Select

- History upper division elective (6 cr.)
  (Generic)

Actual Credits 6

Year	Semester	Actual Credits
Senior Year	Second Semeseter	15

Requirement Select

- Electives (15 cr.)
  (Generic)

Actual Credits 15

POLS-MIN - Political Science Minor

Program Overview

Program Long Title
Political Science Minor

College/School
Arts and Sciences

Department(s)
Sociology and Pol Science

Requirements

Simple Requirements

Minor in Political Science (POLS)

A minor in Political Science consists of 15 hours in POLS courses (six hours must be at the 3000-4000 level).

SOC-BS - Sociology, B.S.

Program Overview

Program Long Title
Sociology, B.S.

College/School
Arts and Sciences

Department(s)
Sociology and Pol Science

Requirements

Simple Requirements

Sociology, B.S. (120 hours)

Type
Completion Requirement

Flight Foundation - Written Communication (6 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Any general education Mathematics course. MATH 1010 - Math for General Studies recommended.

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities andCultural Expression - Literature (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Sociology, B.S. Core

Complete ALL of the following Courses:
- SOC1010 - Intro to Sociology
- SOC1001 - Career Readiness in Sociology and Political Science
- SOC3100 - Sociological Theory
- SOC3900 - Intro-Sociological Research
- SOC3910 - Soc Science Stat Analysis
- SOC3620 - Victimology
- SOC2010 - Human Behavior in the Social Environment I **OR** SW2010 - Human Behavior in the Social Environment I **OR** CJ2010 - Human Behavior in the Social Environment I

SOC 3620 is also cross-listed with CJ3620 and SW3620.

SOC 2010 is also cross-listed with CJ2010 and SW2010.

Sociology, B.S. Core

CJ/SOC/SW Electives (18 hours)

Complete 18 hours in CJ, SOC, or SW electives. **A minimum of15 hours must be taken at the 3000-4000 level**.

Earn at least 18 credits from the following:
- CJELEC - CJ Elective
- SOCELEC - Sociology Elective
- SWELEC - Social Work Elective

Additional Program Requirements

Foreign Language (3 hours):

FREN 1010, 1020, 2010, 2020 **or**

GERM 1010, 1020, 2010, 2020 **or**

SPAN 1010, 1020, 2010, 2020

The minimum is a course in a specific language. None of the "Country and the People" courses are acceptable.

Additional Program Requirements

Philosophy/Social Science Electives (9 hours):

Complete six hours from ANTH, CJ, ECON, GEOG, HIST, PHIL, POLS, PSY, SOC, or SW electives.

Elective Credits

Electives (33 hours)
Additional free electives are required to complete 120 earned hours.

Flight Foundation Core - Financial or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Flexible Elective - (1 cr. from Scientific Reasoning or Financial or Digital Literacy)

Oral Communication (3 cr.)

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication

The MSW Pathway combines the 15-hour requirement of the Social Work minor with the option of taking an additional graduate-level through the Request for Graduate Course for Undergraduate or Graduate Credit option. Students register for the 5000-level sections of the dual credit courses, and, during their last semester, they can complete a graduate-level course. The graduate level course will not be part of their undergraduate program of study.

Dual-Credit Courses:

- SW 4110/**5110**: Poverty, Inequality, & Social Justice (3 hours)
- SW 4175/**5175**: Introduction to Social Welfare Policy (3 hours)

Graduate Course:

- One of the following (3 hours):
  - SW 4005/**5005**: Rural Social Work
  - SW 4010/**5010**: School Social Work
  - SW 4015/**5015**: Medical Social Work
  - SW 4020/**5020**: Forensic Social Work
  - SW 4025/**5025**: Social Work with Children & Youth

For students to participate in the MSW Pathway, they will submit a formal application to the Department of Sociology and Political Science during their junior year. The application includes

· Verification of a cumulative 3.0 GPA

· Two letters of recommendation from faculty familiar with their academic performance

· A brief essay addressing their interest in the social work profession and future graduate study in the MSW program.

Successful applications must have a minimum of a 3.0 cumulative GPA, two positive recommendations from faculty members, and a compelling essay explaining their interest in the social work profession and future graduate study in the MSW program.

Admission to the MSW Pathway will not guarantee admission to the MSW program at Tennessee Tech. However, if a student is later accepted into the MSW program, the 5000-level courses completed with a minimum grade of “B” through the MSW Pathway (up to 9 credit hours) will be fully applied to their graduate degree requirements.

Additional Comments:
A total of 120 hours is required for graduation with a minimum of 36 hours at the upper division level.

Degree Map

Degree Map Name
Degree Plan - Sociology, B.S.
Total Degree Map Credits
120

Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select
- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select
- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select
- SOC1001 - Career Readiness in Sociology and Political Science

Actual Credits 1

Requirement Select
- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select
- SOC2010 - Human Behavior in the Social Environment I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Foreign Language (3 cr.) - The minimum is a course in a specific language. None of the "Country and the People" courses are acceptable.
  (Generic)

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- Social and Behavioral Sciences (GEDS)

Actual Credits 3

Requirement Select
- SOC/SW/CJ Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	16

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Social Science/Philosophy Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Flight Foundations Flexible Elective (1 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	First Semester	15

Requirement Select
- SOC3900 - Intro-Sociological Research

Actual Credits 3

Requirement Select
- SOC3910 - Soc Science Stat Analysis

Actual Credits 3

Requirement Select
- SOC/SW/CJ Upper Division Electives (9 cr.)
  (Generic)

Actual Credits 9

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Electives (9 cr.)
  (Generic)

Actual Credits 9

Requirement Select
- SOC3100 - Sociological Theory

Actual Credits 3

Requirement Select
- Social Science/Philosophy Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- SOC3620 - Victimology

Actual Credits 3

Requirement Select
- SOC/SW/CJ Upper Division Elective (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- Social Science/Philosophy Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select

- Electives (15 cr.) (Generic)

Actual Credits 15

Requirement Select

- A total of 120 hours is required for graduation with a minimum of 36 hours at the upper division level (Generic)

Actual Credits -

SOC-CRCJ - Sociology, Criminology & Criminal Justice Concentration, B.S.

Program Overview

Program Long Title
Sociology, Criminology & Criminal Justice Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Sociology and Pol Science

Requirements

Simple Requirements

Sociology, Criminology & Criminal Justice Concentration (120 hours)

Type
Completion Requirement

Flight Foundation - Written Communication (6 hours)

Complete ALL of the following Courses:

- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:

- Quantitative Reasoning and Analysis (FFQR)

Any general education Mathematics course. MATH 1010 - Math for General Studies recommended.

Flight Foundation Core - Historical Foundations (6 hours)

Complete ALL of the following Courses:

- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression - Literature (3 hours)

Complete ANY of the following Courses:

- ENGL2130 - Topics in American Literature

- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expresion (3 hours)

Earn at least 6 credits from the following:

- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:

- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Natural Science (4 hours)

Earn at least 4 credits from the following:

- Scientific Reasoning (FFSR)

Sociology, Criminology & Criminal Justice Concentration Core

Complete ALL of the following Courses:

- SOC1010 - Intro to Sociology
- SOC1001 - Career Readiness in Sociology and Political Science
- SOC2010 - Human Behavior in the Social Environment I
- CJ2660 - Criminology
- CJ2850 - Criminal Law & Procedure
- SOC3900 - Intro-Sociological Research
- SOC3910 - Soc Science Stat Analysis
- CJ3610 - Advanced Criminal Procedure
- CJ4660 - Corrections
- SOC3620 - Victimology
- SOC3100 - Sociological Theory
- CJ3650 - Youth and Society

Sociology, Criminology & Criminal Justice Concentration Core

CJ/SOC/SW Upper Division Electives (12 hours):

Complete 12 hours of upper division electives from -

SOC 3000-4999, CJ 3000-4999, or SW 3000-4999

Additional Program Requirements

Complete ALL of the following Courses:

- POLS1030 - American Government
- PHIL1030 - Intro to Philosophy

Additional Program Requirements

Philosophy/Social Science Electives (9 hours):

Complete six hours from ANTH, CJ, ECON, GEOG, HIST, PHIL, POLS, PSY, or SOC electives.

Three hours must be taken at the 3000-4000 level.

Additional Program Requirements

Foreign Language (3 hours):

FREN 1010, 1020, 2010, 2020 **or**

GERM 1010, 1020, 2010, 2020 **or**

SPAN 1010, 1020, 2010, 2020

The minimum is a course in a specific language. None of the "Country and the People" courses are acceptable.

Elective Credits

Electives (24 hours)
Additional free electives are required to complete 120 earned hours.

Flight Foundation Core - Financial or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Flexible Elective (1 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy.

Oral Communication (3 cr.)

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication

Additional Comments:
A total of 120 hours is required for graduation with a minimum of 36 hours at the upper division level.

Degree Map

Degree Map Name
Degree Plan - Sociology, Criminology and Criminal Justice Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- SOC1001 - Career Readiness in Sociology and Political Science

Actual Credits 1

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select

- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select

- CJ2010 - Human Behavior in the Social Environment I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select
- CJ2850 - Criminal Law & Procedure

Actual Credits 3

Requirement Select
- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select
- Foreign Language (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Requirement Select
- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select
- CJ2660 - Criminology

Actual Credits 3

Requirement Select
- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select
- Electives (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- HIST2010 - Early United States History

Actual Credits 3

Requirement Select
- POLS1030 - American Government

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PHIL1030 - Intro to Philosophy

Actual Credits 3

Requirement Select
- Social Science/Philosophy Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- CJ3610 - Advanced Criminal Procedure

Actual Credits 3

Requirement Select
- SOC3900 - Intro-Sociological Research

Actual Credits 3

Requirement Select
- SOC3910 - Soc Science Stat Analysis

Actual Credits 3

Requirement Select
- SOC/SW/CJ Upper Division Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- Flight Foundations Flexible Elective (1 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy.
  (Generic)

Actual Credits 1

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- CJ3650 - Youth and Society

Actual Credits 3

Requirement Select
- SOC3100 - Sociological Theory

Actual Credits 3

Requirement Select
- Social Science/Philosophy Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- CJ4660 - Corrections

Actual Credits 3

Requirement Select
- SOC3620 - Victimology

Actual Credits 3

Requirement Select
- SOC/SW/CJ Upper Division Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- Social Science/Philosophy Upper Division Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Electives (15 cr.)
  (Generic)

Actual Credits 15

Requirement Select
- A total of 120 hours is required for graduation with a minimum of 36 hours at the upper division level. 2 Students need to take a general elective (it does not have to be a one-hour course). Consult your academic advisor.
  (Generic)

Actual Credits -

Requirement Select
- The minimum is a course in a specific language. For example, none of the "Culture and Civilization" courses are acceptable.
  (Generic)

Actual Credits -

SOC-MIN - Sociology Minor

Program Overview

Program Long Title
Sociology Minor

College/School
Arts and Sciences

Department(s)
Sociology and Pol Science

Requirements

Simple Requirements

Minor in Sociology (SOC)

A minor in Sociology consists of 15 hours in SOC courses (six hours must be at the 3000-4000 level).

SOC-SOSW - Sociology, Social Work Concentration, B.S.

Program Overview

Program Long Title
Sociology, Social Work Concentration, B.S.

College/School
Arts and Sciences

Department(s)
Sociology and Pol Science

Requirements

Simple Requirements

Sociology, Social Work Concentration (120 hours)

Type
Completion Requirement

Flight Foundation - Written Communication (6 hours)

Complete ALL of the following Courses:
- ENGL1010 - English Composition I
- ENGL1020 - English Composition II

1. English must be taken each semester, except the summer, until this requirement is completed. ENGL 1010-ENGL 1020 may not be dropped. Correspondence credit in ENGL 1010-ENGL 1020 will not be accepted.
2. The prerequisite for ENGL 1020 is a grade of C or better in ENGL 1010, and the prerequisite for a 2000-level English course is a grade of C or better in ENGL 1020. If a transfer student has completed two semesters of composition and has a grade of D in ENGL 1020, then the student must repeat ENGL 1020 before beginning the literature courses. ESL classes do not satisfy the ENGL 1010 and ENGL 1020 communication requirement of the general education core, nor do these courses count toward any degree requirements.

Flight Foundation Core - Quantitative Reasoning & Analysis (3 hours)

Complete ANY of the following Course Sets:
- Quantitative Reasoning and Analysis (FFQR)

Any general education Mathematics course. MATH 1010 - Math for General Studies recommended.

Flight Foundation Core - Historical Foundations 6 hours)

Complete ALL of the following Courses:
- HIST2010 - Early United States History
- HIST2020 - Modern United States History

1. All students must complete six hours of Historical Foundations except those students who are majoring in Chemical, Civil, Computer, Electrical, General and Mechanical Engineering. If the student has not completed one unit of American History in high school, the student will be required to complete 6 semester hours of Historical Foundations for the deficiency.

Flight Foundation Core - Humanities and Cultural Expression- Literature (3 hours)

Complete ANY of the following Courses:
- ENGL2130 - Topics in American Literature
- ENGL2235 - Topics in British Literature
- ENGL2330 - Topics in World Literature

Flight Foundation Core - Humanities and Cultural Expression (6 hours)

Earn at least 6 credits from the following:
- Humanities/Cultural Expression (FFHC)

Flight Foundation Core - Social/Behavioral Science (6 hours)

Earn at least 6 credits from the following:
- Social and Behavioral Sciences (GEDS)

Flight Foundation Core - Scientific Reasoning (4 hours)

Earn at least 4 credits from the following:
- Scientific Reasoning (FFSR)

Sociology, Social Work Concentration Core

Complete ALL of the following Courses:
- SOC1010 - Intro to Sociology
- SOC1001 - Career Readiness in Sociology and Political Science
- SW1800 - Intro to Social Work
- SOC2010 - Human Behavior in the Social Environment I
- SOC3100 - Sociological Theory
- SOC3900 - Intro-Sociological Research
- SOC3910 - Soc Science Stat Analysis
- SW4100 - Probation and Parole
- SW4900 - Internship
- SOC3620 - Victimology
- SW4120 - Case Management

SOC 3620 is cross-listed with SW 3620 and CJ 3620.

SW 2010 is cross listed with SOC 2010 and CJ 2010

Sociology, Social Work Concentration Core

CJ/SOC/SW Electives (12 hours):

Complete 12 hours from CJ, SOC, or SW electives

A minimum of 9 hours must be taken at the 3000-4000 level.

Additional Program Requirements

Complete ALL of the following Courses:
- POLS1030 - American Government
- PSY1030 - Introduction to Psychology
- PHIL2250 - Introductory Ethics
- PSY2210 - Educational Psychology
  OR PSYELEC - Psychology elective

Additional Program Requirements

Foreign Language (3 hours):

FREN 1010, 1020, 2010, 2020 **or**

GERM 1010, 1020, 2010, 2020 **or**

SPAN 1010, 1020, 2010, 2020

The minimum is a course in a specific language. None of the "Country and the People" courses are acceptable.

Elective Credits

Electives (27 hours)

Additional free electives are required to complete 120 earned hours.

Flight Foundation Core - Financial or Digital Literacy (3 cr.)

Earn at least 3 credits from the following:

- Financial Literacy or Digital Literacy (FFDL)

Flight Foundations Flexible Elective (1 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy.

Oral Communication (3 cr.)

Complete ANY of the following Course Sets:

- Communication (GEDC) - Oral Communication

Additional Comments:
A total of 120 hours is required for graduation with a minimum of 36 hours at the upper division level.

Degree Map

Degree Map Name
Degree Plan - Sociology, Social Work Concentration, B.S.
Total Degree Map Credits
120
Degree Map Effective Catalog Year
2627 -

Year	Semester	Actual Credits
Freshman Year	First Semester	14

Requirement Select

- SOC1001 - Career Readiness in Sociology and Political Science

Actual Credits 1

Requirement Select

- ENGL1010 - English Composition I

Actual Credits 3

Requirement Select

- Scientific Reasoning (FFSR)

Actual Credits 4

Requirement Select

- SOC1010 - Intro to Sociology

Actual Credits 3

Requirement Select

- SW2010 - Human Behavior in the Social Environment I

Actual Credits 3

Year	Semester	Actual Credits
Freshman Year	Second Semester	15

Requirement Select

- ENGL1020 - English Composition II

Actual Credits 3

Requirement Select

- Foreign Language (Generic)

Actual Credits 3

Requirement Select

- Financial Literacy or Digital Literacy (FFDL)

Actual Credits 3

Requirement Select

- SW1800 - Intro to Social Work

Actual Credits 3

Requirement Select

- Quantitative Reasoning and Analysis (FFQR)

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	First Semester	15

Requirement Select

- Electives (3 cr.) (Generic)

Actual Credits 3

Requirement Select

- ENGL2130 - Topics in American Literature
  OR
- ENGL2235 - Topics in British Literature
  OR
- ENGL2330 - Topics in World Literature

Actual Credits 3

Requirement Select

- HIST2010 - Early United States History

Actual Credits 3

Requirement Select

- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select

- POLS1030 - American Government

Actual Credits 3

Year	Semester	Actual Credits
Sophomore Year	Second Semester	15

Requirement Select
- Communication (GEDC) - Oral Communication

Actual Credits 3

Requirement Select
- HIST2020 - Modern United States History

Actual Credits 3

Requirement Select
- Humanities/Cultural Expression (FFHC)

Actual Credits 3

Requirement Select
- PSY1030 - Introduction to Psychology

Actual Credits 3

Requirement Select
- SOC/SW/CJ Elective (3 cr.)
  (Generic)

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	First Semester	16

Requirement Select
- SOC3900 - Intro-Sociological Research

Actual Credits 3

Requirement Select
- SOC3910 - Soc Science Stat Analysis

Actual Credits 3

Requirement Select
- SOC/SW/CJ Upper Division Electives (6 cr.)
  (Generic)

Actual Credits 6

Requirement Select
- Flight Foundations Flexible Elective (1 cr.) - choose from Humanities and Cultural Expression, Scientific Reasoning, or Financial or Digital Literacy.
  (Generic)

Actual Credits 1

Requirement Select
- SW4100 - Probation and Parole

Actual Credits 3

Year	Semester	Actual Credits
Junior Year	Second Semester	15

Requirement Select
- Electives (9 cr.)
  (Generic)

Actual Credits 9

Requirement Select
- PSY elective (3 cr.)
  (Generic)
  OR
- PSY2210 - Educational Psychology

Actual Credits 3

Requirement Select
- SOC3100 - Sociological Theory

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	First Semester	15

Requirement Select
- PHIL2250 - Introductory Ethics

Actual Credits 3

Requirement Select
- SOC3620 - Victimology

Actual Credits 3

Requirement Select
- SOC/SW/CJ Upper Division Elective (3 cr.)
  (Generic)

Actual Credits 3

Requirement Select
- SW4900 - Internship

Actual Credits 3

Requirement Select
- SW4120 - Case Management

Actual Credits 3

Year	Semester	Actual Credits
Senior Year	Second Semester	15

Requirement Select
- Electives (15 cr.)
  (Generic)

Actual Credits 15

Requirement Select

- A total of 120 earned hours is required for graduation, with a minimum of 36 hours at the upper division level (3000-4000).
  (Generic)

Actual Credits -

SOSW-MIN - Social Work Minor

Program Overview

Program Long Title
Social Work Minor

College/School
Arts and Sciences

Department(s)
Sociology and Pol Science

Requirements

Simple Requirements

Minor in Social Work (SOSW)

Type
Completion Requirement

Social Work Minor (15 credits)

Complete ALL of the following Courses:

- SW1800 - Intro to Social Work
- SW2010 - Human Behavior in the Social Environment I
- SW2020 - Human Behavior in the Social Environment II
  OR SW4000 - Substance Misuse, Addiction and Recovery
- SW4110 - Poverty, Inequality, & Social Justice
  OR SW5110 - Poverty, Inequality, and Social Justice
- SW4175 - Introduction to Social Welfare Policy
  OR SW5175 - Introduction to Social Welfare Policy

Courses

Course Information

Course Title
Non-Western Cultures

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANTH

Course Number
2002

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An introduction to the study of non-Western cultures and societies through their ideologies, language systems, ecologies, family structures, social stratification, religions, and economic structures. A comparative approach will be emphasized.

College/School
Arts and Sciences

Course Information

Course Title
Cultural Ecology

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANTH

Course Number
2100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Interaction between human cultural systems and the physical environment in prehistoric through modern times.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Law and Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANTH

Course Number
4040

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. A comparative cross-cultural analysis of primitive, traditional, and modern attitudes toward law, social control, punishment, and individual responsibility.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANTH

Course Number
4910

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of anthropology where there is no appropriate course. May be taken twice, provided that the topic is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
ANTH

Course Number
4960

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue or interest area in anthropology.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Human Behavior in the Social Environment I

Course Information

Course Title
Behavior Social Environment I

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Orients students to theoretical content on the person-in-environment focus in Social Work. An ecological model with a lifespan approach is utilized to explore the periods from conception through late adulthood to understand individuals as they develop throughout the life cycle.

College/School
Arts and Sciences

Syllabus
HBSE I Syllabus Proposal.pdf

Human Behavior in the Social Environment II

Course Information

Course Title
Behavior Social Environment II

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This second course in the HBSE sequence expands the students' knowledge of theoretical content, building on the ecological model and lifespan approach to understand individuals as they develop and have membership in families, groups, communities, and organizations.

College/School
Arts and Sciences

Syllabus
HBSE II Syllabus Proposal.pdf

Course Information

Course Title
Criminology

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
2660

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing. Crime, the criminal and society's responses to the behavior.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing.

Course Information

Course Title
Police and Society

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
2700

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Introduction to contemporary police organization and operations.

College/School
Arts and Sciences

Requisites and Restrictions

Note:
(CRMJ 1010, TTP Course)

Course Information

Course Title
Criminal Law & Procedure

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
2850

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Substantive criminal law and the rights of defendants to criminal charges.

College/School
Arts and Sciences

Requisites and Restrictions

Note:
(CRMJ 1020, TTP Course)

Course Information

Course Title
Rules of Evidence

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
3000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: CJ 2850. Rules and exceptions governing the admission and exclusion of evidence including such issues as relevancy, presumptions, and burden of proof.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
CJ 2850.

Course Information

Course Title
Responsible AI

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Incorporating the foundational elements of Responsible AI, students will submit questions and hear from industry executives and senior government officials on the real-world application of Responsible AI and cybersecurity. Students will develop an understanding of the importance of critical thinking to effectively communicate clearly, concisely, and bottom line upfront.

College/School
Arts and Sciences

Syllabus
Syllabus Responsible AI Spring 2025 (005) (3).pdf

Course Information

Course Title
Cyber Terrorism

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
3140

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 American Government (Cyber edition) or consent of instructor. Exploration of domestic and international cyber terror threats and concomitant responses by government and industry.

College/School
Arts and Sciences

Syllabus
cyber terrorism syllabus 2022.docx

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Cyberlaw

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
3175

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: SOC 1010 or consent of Instructor. In-depth analysis of interactions between technology and the law.

College/School
Arts and Sciences

Syllabus
SOC4960 Syllabus Fall 2023.docx

Requisites and Restrictions

Prerequisite:
SOC 1010 or consent of Instructor.

Course Information

Course Title
Wildlife Law Enforcement

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
State wildlife laws and practices used in their enforcement. Enrollment primarily restricted to WFS majors.

College/School
Arts and Sciences

Course Information

Course Title
Advanced Criminal Procedure

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
3610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing and SOC 1010 or CJ (SOC) 2660. Administration of the criminal process with particular attention to recent U.S. Supreme Court decisions regarding the Fourth, Fifth, and Sixth Amendments.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing and SOC 1010 or CJ 2660, SOC 2660.

Course Information

Course Title
Victimology

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
3620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or CJ 2660. Students must be majoring in SOC, SOC/CJ or SOC/SW. Non-majors may be admitted by consent of instructor. This course provides an in-depth analysis of the victims of criminal activity including: the various challenges victims face as they seek justice through the criminal justice system; the risk factors and probability of experiencing crime; and, specific theoretical perspectives that center on the victims of crime. Topics such as restorative justice and victim blaming are also explored.

College/School
Arts and Sciences

Course Information

Course Title
Cybercrime

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
3640

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or CJ 2660 or consent of the instructor. This course provides a broad introduction into the world of cybercrime. Cybercrime includes various forms of criminal activity and is broadly defined as the destruction, theft or unauthorized or illegal use, modification or copying of information, programs, services, equipment, or communication networks.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or CJ 2660 or consent of the instructor.

Course Information

Course Title
Youth and Society

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
3650

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing and SOC 1010. Causes of juvenile misconduct, possible responses to the problem, and the system of juvenile justice.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing and SOC 1010.

Course Information

Course Title
Introduction to Crime Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
3911

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or CJ 2660. Sociology majors only. Non majors may be admitted by consent of instructor. This course provides students with a broad understanding of Microsoft Excel with application to crime analysis in order to prepare them for conducting advanced spatial analysis in CJ/SOC 4911.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 and SOC 2660.

Course Information

Course Title
Organized Crime

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing and SOC 1010 or CJ (SOC) 2660. Organized crime in America as a product of legal, historical, cultural, and economic forces.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing and SOC 1010 or CJ 2660 or SOC 2660.

Course Information

Course Title
Law and Culture (Anthropology)

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4040

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. A comparative cross-cultural analysis of primitive, traditional, and modern attitudes toward law, social control, punishment, and individual responsibility.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Probation and Parole

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing and SOC 1010 or CJ (SOC) 2660 or SW 1800. Probation and parole services with special attention to current practices and issues.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing and SOC 1010 or CJ 2660 or SOC 2660 or SW 1800.

Course Information

Course Title
Crime and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite SOC 1010 or SOC/CJ 2660 or consent of the instructor. An analysis of crimes, criminals, and punishment as they appear in American popular culture and various media.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 2660/CJ 2660 or consent of the instructor.

Course Information

Course Title
Case Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing and SOC 1010 or CJ (SOC) 2660 or SW 1800. Individual and group methods used in counseling and treating offenders in both the institutional and community setting.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing and SOC 1010 or CJ 2660 or SOC 2660 or SW 1800.

Course Information

Course Title
Drugs/Behavioral Pharmacology

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing and SOC 1010 or CJ 2660 or SOC 2660 . Relationships between drugs or drug groupings and human behavior, including toxicity, behavioral symptoms, and historical aspects of drug abuse.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing and SOC 1010 or CJ 2660 or SOC 2660.

Course Information

Course Title
White Collar Crime

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4350

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010, or SOC 2660, or consent of the instructor. Criminological and sociological examination of offenders and victims of crimes in the world of business and government committed in the course of legitimate occupations.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010, or SOC 2660, or consent of the instructor.

Course Information

Course Title
Sexual Offenses and Offenders

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4515

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 Introduction to Sociology. This course provides a broad introduction in to the world of sexual offenses. Accordingly, this course will provide information on survivors of these crimes, perpetrators, as well as relevant sociological factors. An emphasis will be placed on understanding the perpetrator specifically.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010.

Course Information

Course Title
Patterns of Domestic Violence

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or CJ 2660 or consent of instructor. This course investigates all forms of domestic violence from a sociological perspective including theoretical explanations, prevalence, risk factors, dynamics of prevention, and intervention.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or CJ 2660 or consent of instructor.

Course Information

Course Title
Sociology of Murder

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or CJ 2660 or consent of the instructor. This course provides an analytical study of murder and violence in the United States. As such, course topics include: different types of homicide, offender characteristics, victim characteristics, etiological considerations of becoming n offender or victim, the role of social profiling n the investigation of various types of murder, theoretical approaches to the study of murder, and patterns and sources of violence. Taking in to account the grisly topic, students who are disturbed by particularly heinous crimes should avoid enrolling in this course.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or CJ 2660 or consent of instructor.

Course Information

Course Title
Women and Crime

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4540

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Must be a major in: SOC; SOC/CJ or SOC/SW. Non-majors by permission from instructor. This course provides an in-depth analysis on women's involvement in both crime enforcement, and crime perpetration. The course examines how societal gender norms and concepts such as "femininity" impact women as law enforcers, perpetrators, and victims of crime.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or CJ 2660. Students must be majoring in SOC, SOC/CJ/, or SOC/SW. Non-majors may be admitted by consent of instructor.

Course Information

Course Title
Corrections

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4660

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing and SOC 1010 or CJ (SOC) 2660 or SW 1800. Correctional services, practices, and issues with particular attention to the maximum security adult institution.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing and SOC 1010 or CJ 2660 or SOC 2660 or SW 1800.

Note:
(O) and (E) Denote Odd and Even Years Respectively

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4700

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of criminology or criminal justice where there is no appropriate course. May be taken twice, provided that the topic is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4900

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisite: Nine hours of sociology. See instructor prior to enrolling. Students are placed with and work in a public or private agency which is compatible with their interests. (Students may take a maximum of two internships for up to a total of 6 hours of Internship. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements with any additional hours counting as upper division general elective hours).

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Nine hours of Criminal Justice. See instructor prior to enrolling.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4901

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Nine hours of sociology. See instructor prior to enrolling. Students are placed with and work in a public or private agency which is compatible with their interests. (Students may take a maximum of two internships for up to a total of 6 hours of Internship. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements with any additional hours counting as upper division general elective hours).

College/School
Arts and Sciences

Course Information

Course Title
GIS Mapping for the Soc Sci

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4911

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites SOC 1010 Introduction to Sociology. This course provides a broad introduction into the world of geographic information systems (GIS) and their applicability to the social sciences - particularly criminal justice. Students are required to complete a major research project using GIS applications and to present the results.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4915

Credit Hours

Credit Hours:
6

Other Hours

Min:
6

Course Description
Six hour internships are only available for internships that offer special opportunities that are not available in a 3 hour internship. See instructor prior to enrolling to determine if an available internship opportunity qualifies for 6 hours of credit.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Nine hours of sociology.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4925

Credit Hours

Credit Hours:
9

Other Hours

Min:
9

Course Description
Nine hour internships are only available for internships that offer special opportunities that are not available in a 3 or 6 hour internship. The great majority of these will be summer internships that require the intern to work a 40 hour week. See instructor prior to enrolling to determine if an available internship opportunity qualifies for 9 hours of credit.

College/School
Arts and Sciences

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4940

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4941

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4948

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Number Of Credits:
6

Course Description
Cross-listing: SOC 4948, SW 4948
Credit 2.
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of independent study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4949

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Cross-listing: SOC 4949, SW 4949Credit 3.Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of independent study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper-division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4950

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Credits:
6

Course Description
Cross-listing: SOC 4950 (5950), SW 4950 (5950)
Credit 3.
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is not appropriate course. Students may take a total of up to 6 hours of independent study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4951

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Credits:
6

Course Description
Cross-listing: SOC 4951, SW 4951
Credit 3.
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of independent study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4970

Credit Hours

Credit Hours:
1

Credit Hours:
3

Other Hours

Min:
1

Max:
3

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4971

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4972

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4973

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4974

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4975

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4976

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4977

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4978

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4979

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4980

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4981

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4983

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4982

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4984

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4985

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4987

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4986

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4988

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4989

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4990

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4991

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4993

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4992

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4994

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4995

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4997

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4996

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4998

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
CJ

Course Number
4999

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Intro to Philosophy

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHIL

Course Number
1030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Prerequisite: Completion of two semesters of college work. Introduction to central problems of the nature of humanity, ethics, religion, justice, and knowledge of reality.

College/School
Arts and Sciences

Course Information

Course Title
Introductory Logic

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHIL

Course Number
2100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Completion of two semesters of college work. Consideration of uses of language, definition, and informal fallacies; forms of valid deductive argument; elementary propositional logic; and inductive arguments.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Completion of two semesters of college work.

Course Information

Course Title
Introductory Ethics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHIL

Course Number
2250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Appraisal of conduct and moral reasoning by the study of traditional theories of the good life and their bearing upon contemporary moral issues.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Completion of two semesters of college work.

Course Information

Course Title
Philosophy of Religion

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHIL

Course Number
3010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Junior standing. Consideration of religious issues such as the nature of religious experience, existence and nature of God, verification of religious claims, and evil and human destiny.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Junior Standing.

Course Information

Course Title
Hist-Ancient & Medieval Phil

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHIL

Course Number
3310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Completion of two semesters of college work. Study of the most important philosophical systems which developed in the Mediterranean areas in Western Europe from the time of Socrates through St. Thomas Aquinas.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Completion of two semesters of college work.

Course Information

Course Title
History of Modern Philosophy

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHIL

Course Number
3320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Completion of two semesters of college work. Study of selected philosophical systems which developed in the Western World from the 1500s to the time of the 20th century.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Completion of two semesters of college work.

Course Information

Course Title
The Nature of Knowledge

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHIL

Course Number
4010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Completion of two semesters of college work. Issues and problems concerning the nature and scope of knowledge: truth and evidence, skepticism and certainty, memory, and perception.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Completion of two semesters of college work.

Course Information

Course Title
Comparative Religion

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHIL

Course Number
4020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Completion of two semesters of college work. Study of the great world religions with an emphasis on the distinctive concepts of each.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Completion of two semesters of college work.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHIL

Course Number
4950

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of philosophy where there is no appropriate course. May be taken twice, provided the topic is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
PHIL

Course Number
4960

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue or interest area in philosophy.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Career Readiness in Sociology and Political Science

Course Information

Course Title
Career Readiness in Soc/Pols

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
1001

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
This course is designed to provide students with the opportunity to get an early jumpstart on preparing them for careers in their chosen field.

College/School
Arts and Sciences

Syllabus
Career Readiness Course.docx

Course Information

Course Title
American Government

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
1030

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
American systems of constitutional governance; emphasis on the major institutions and policies.

College/School
Arts and Sciences

Course Information

Course Title
Intro to Political Science

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
1100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Overview of political science and its subfields: American politics, comparative politics, political behavior, international relations and political theory. Focus on core questions in the discipline as well as the development of writing and critical thinking necessary for upper-division courses in the major.

College/School
Arts and Sciences

Course Information

Course Title
Mock Trial

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
2250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
3

Number Of Credits:
12

Course Description
Prerequisite: POLS 1030 or consent of instructor. Introduces the art of persuasion in mock trial cases of civil or criminal law with an emphasis on rules of evidence and courtroom practices. May be repeated as long as the topic is different. Maximum of 12 hours.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Prerequisite: POLS 1030 or consent of instructor

Course Information

Course Title
Data Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Computer aided data analysis. Emphasis on statistical analysis of political variables.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Responsible AI

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Incorporating the foundational elements of Responsible AI, students will submit questions and hear from industry executives and senior government officials on the real-world application of Responsible AI and cybersecurity. Students will develop an understanding of the importance of critical thinking to effectively communicate clearly, concisely, and bottom line upfront.

College/School
Arts and Sciences

Syllabus
Syllabus Responsible AI Spring 2025 (005) (3).pdf

Course Information

Course Title
Model United Nations

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3102

Credit Hours

Credit Hours:
0

Credit Hours:
3

Lecture Hours

Min:
0

Max:
3

Lab Hours

Min:
0

Max:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: POLS 1030 or consent of the instructor. Analyze the structure and operations of the United Nations. Includes participation in an intercollegiate UN simulation. May be repeated as long as the topic is different. Maximum of 12 hours.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor.

Course Information

Course Title
Intro-Legal Reasoning/Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. This course will provide an introduction to various forms of legal reasoning including the application of rules (syllogistic reasoning) and of precedents (analogical reasoning), arguing from circumstantial evidence (retroduction, or argument to the best explanation) and from authority (expert and eyewitness testimony), and using formal logic in the analysis of extended legal texts.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Legal Research and Writing

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. This course is designed to teach students how to research a legal issue, analyze and synthesize appellate opinions, interpret state and federal statutes resulting in the creation of a persuasive legal memorandum. This course will also expose the students to various legal documents, their purpose, and the proper method of drafting them.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Moot Court

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3130

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
3

Number Of Credits:
12

Course Description
Prerequisite: Consent of the instructor. Analysis of mock civil or criminal cases, case briefing and oral argument. May include participation in an annual statewide Moot Court competition. May be repeated as long as the topic is different. Maximum of 12 hours.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of the instructor.

Course Information

Course Title
Cyber Terrorism

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3140

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 American Government (Cyber edition) or Consent of Instructor. Exploration of domestic and international cyber terror threats and concomitant responses by government and industry.

College/School
Arts and Sciences

Syllabus
cyber terrorism syllabus 2022.docx

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Cyberlaw

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3175

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or consent of Instructor. In-depth analysis of interactions between technology and the law.

College/School
Arts and Sciences

Syllabus
SOC4960 Syllabus Fall 2023.docx

Requisites and Restrictions

Prerequisite:
SOC 1010 or consent of Instructor.

Course Information

Course Title
American Political Thought

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Survey of American political theory.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Politics of Developing Nations

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Focus on the internal politics of selected developing nations.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
State and Local Government

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3330

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Comparative study of state executives, legislatures, judiciaries, and policies; overview of counties and municipalities.

College/School
Arts and Sciences

Course Information

Course Title
Gender and Politics

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Role of gender in American politics and public policy, emphasizing the influence of political theories on individual world views.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Political Conspiracy Theories

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of the instructor. Considers the relationship between governments and conspiracy theories, including the political, social and psychological factors that breed conspiracy theories and increase distrust of government institutions.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
International Politics

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Analysis of foreign policy conceptions and factors that affect relations among nations.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
International Organizations

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3650

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 or consent of the instructor. Analysis of international organizations.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor.

Course Information

Course Title
East Asian Politics

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3660

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Comparison of the political dynamics and policy behaviors of the systems in East Asia, with a particular focus on the five East Asian states: China, Taiwan, Japan, South Korea, and North Korea. The course examines and compares the major aspects and functions in each of these countries, such as the conditions of regime formation, their political ideologies, the process of economic development and democratization, and foreign policies as an extension of domestic politics. Major contemporary issues and policies of the East Asian systems will be surveyed, with a particular emphasis on how each government enhances its regime's claim to political legitimacy.

College/School
Arts and Sciences

Syllabus
POLS3660 East Asian Politics 2024f_Lee.pdf

Course Information

Course Title
Foreign Policy

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3670

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of the instructor. Development and the formulation of U.S. foreign policy.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor.

Global Diplomacy through Board Games

Course Information

Course Title
Diplomacy Through Board Games

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3680

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course explores the intricate world of international relations by combining strategic thinking with the excitement of board games. By immersing themselves in various board games designed to simulate real world scenarios, students will gain practical insights into the challenges faced by nations on the global stage and make critical decisions to understand the dynamics of international politics.

College/School
Arts and Sciences

Syllabus
POLS4913 Global Diplomacy through Board Games 2024f_Lee.pdf

Course Information

Course Title
Leadership in Cybersecurity

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3690

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Students learn from Intelligence Professionals the basics of how information is turned into intelligence to be utilized by decisionmakers leading their government, public or private organizations to protect against cybersecurity threats. Students further learn how Cyber Threat Intelligence is used to understand Cybersecurity risks from industry leaders within the government, public and private sector and then develop critical thinking to recognize and overcome bias through analytical tradecraft and develop information for executive intelligence reporting by understanding value proposition, bottom line upfront, concise and precise communication. (3) credit hours.

College/School
Arts and Sciences

Syllabus
IntelligenceandLeadershipinCybersecuritySyllabus.pdf

Course Information

Course Title
The Legislative Process

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3700

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. The origins, organization and functions of legislatures.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
The American Executive

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. A comparative study of governmental executives.

College/School
Arts and Sciences

Course Information

Course Title
Judicial Process

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
3810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Survey of American state and federal court systems, using qualitative and quantitative methods.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Middle East Politics

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This course delves into the history and politics of the Middle East, with a focus on U.S. foreign policy, democratization, authoritarianism, development, oil supply, the Cold War, terrorism, weapons of mass destruction, Islamic religion, and the Israel-Palestine conflict. Students will also engage in the Model Arab League Conference.

College/School
Arts and Sciences

Course Information

Course Title
International Law

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Analysis of the nature, development, and concepts of international law.

College/School
Arts and Sciences

Course Information

Course Title
American Political Parties

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Study of political parties, pressure groups, and public opinion.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Campaigns and Elections

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of the instructor. Considers the practical aspects of campaigning for public office on all levels of government including strategy, financing, organization, research, and media.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor.

Course Information

Course Title
Scndl/Corruptn in US Politics

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4230

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. This course will introduce students to the phenomenon of political corruption and its effects on American politics. Attention will be paid to contemporary scandal and historical examples, analyzing causes and consequences on both involved politicians and the American public.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Political Communication

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4250

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. An analysis of the relationship between the news media and politics. How do news organizations determine what is newsworthy? How do they report news? Do those reports affect the political opinions of viewers? Do they affect political outcomes? Students will learn theories and debates that have emerged in top political science journals within the past 15 years, ultimately gaining a broad understanding of the effect of mass communication on the political system.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Con Law I:Strug-Fed Pwer, Act

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4310

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Recommended POLS 3810. Landmark cases in powers of the judiciary, presidency, Congress, and states' rights, with a Moot Court Term project.

College/School
Arts and Sciences

Course Information

Course Title
Con Law II:Civ Lib & Civ Right

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Recommended POLS 3810 and 4310. Landmark cases in the development of civil liberties and civil rights of individuals with a Moot Court term project.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor. Recommended POLS 3810 and POLS 4310.

Course Information

Course Title
Political Satire

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4400

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Study of political satire from the ancients to postmodern influences with an evaluation of the contemporary study of popular culture.

College/School
Arts and Sciences

Course Information

Course Title
Pol Theory/Ancient & Medieval

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4410

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Analysis of political thought from ancient Greece to 1500.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Political Theory: Early Modern

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4420

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Analysis of political thought from 1500 toward the present.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Power and Privilege on Screen

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. This course involves the evaluation of political film, documentaries and campaign ads using appropriate film theories, political texts and political writings.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Comparative Gov: Europe

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. A comparison of the political systems of Europe.

College/School
Arts and Sciences

Course Information

Course Title
Comparative Political Behavior

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of the instructor. Examines the individual's decision to participate in political life and the impact those decisions have on policy formation across the world's developed democracies.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor.

Course Information

Course Title
Public Admin/Public Policy

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of the instructor. Theory and cases in public administrative organizations and controls.

College/School
Arts and Sciences

Course Information

Course Title
Tennessee Trial Practices

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4700

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of instructor. The theory and practice of conducting a trial in a Tennessee Court of law including evidence, ethics, procedure, and trial technique. Basic skills in trial advocacy including direct examination, cross examination, voir dire, opening statements, and closing arguments will also be covered.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor.

Course Information

Course Title
First Amendment Law/Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4730

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of the instructor. An examination of speech, expression, association, the free exercise of religion, and the relationship between church and state as those concepts are understood in the context of the First Amendment and constitutional law. Also included is the impact of new and emerging technology as it relates to these concepts.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4900

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Number Of Repeats:
1

Course Description
Prerequisite: POLS 1000 or consent of the instructor. Supervised research and reading in any area where there is no appropriate course offering. May be taken twice, provided the topic is different.

College/School
Arts and Sciences

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4901

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisite: Consent of instructor. Supervised research and reading in any area where there is no appropriate course offering. May be taken twice, provided the topic is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Seminar in Public Law

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4910

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of the instructor. Advanced readings in human rights issues.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor.

Course Information

Course Title
Special Projects

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4911

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: POLS 1100 or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in political science.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Special Projects

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4912

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in political science.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Special Projects

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4914

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in political science.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Special Projects

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4913

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in political science.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Special Projects

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4915

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in political science.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Special Projects

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4916

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in political science.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Special Projects

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4918

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in political science.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Special Projects

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4917

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in political science.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Special Projects

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4919

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1000 or consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in political science.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Seminar in Comparative Politic

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4920

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Advanced reading and research on selected topics in comparative politics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Pol Participation Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4950

Credit Hours

Credit Hours:
3

Credit Hours:
12

Other Hours

Min:
3

Max:
12

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisites: POLS 1000 and 3330. Directed study and research while serving as an intern in a political party. (Note: No more than six hours may be counted as "approved courses" in major.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 and POLS 3330.

Course Information

Course Title
Seminar in World Politics

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4960

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: POLS 1030 and POLS 1100 or consent of the instructor. Advanced reading and research on selected areas in international politics.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor; and POLS 1100 or consent of instructor.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
POLS

Course Number
4990

Credit Hours

Credit Hours:
1

Credit Hours:
12

Other Hours

Min:
1

Max:
12

Operator:
TO

Repeatable for Credit:
Yes

Course Description
Prerequisite: POLS 1000 or consent of the instructor. Directed study and research while serving as an intern in appropriate governmental offices. (Note: Only six hours may be counted as "approved courses" in the major.)

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of the instructor.

Career Readiness in Sociology and Political Science

Course Information

Course Title
Career Readiness in Soc/Pols

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
1001

Credit Hours

Credit Hours:
1

Lecture Hours

Min:
1

Repeatable for Credit:
No

Course Description
This course is designed to provide students with the opportunity to get an early jumpstart on preparing them for careers in their chosen field

College/School
Arts and Sciences

Syllabus
Career Readiness Course.docx

Course Information

Course Title
Intro to Sociology

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
1010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Fundamental concepts and basic principles underlying human social relations.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Social/Behavioral Sciences).

Note:
(SOCI 1010, TTP Course)

Course Information

Course Title
First Year Connections

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
1020

Credit Hours

Credit Hours:
1

Lab Hours

Min:
1

Course Description
A course required for all sociology majors, designed to assist the student in acquiring basic knowledge and skills necessary to be a successful sociology major. Additional focus upon personal and academic adjustments to college in general. May be taken at the same time as SOC 1010. Must be taken at first opportunity after declaration of sociology as a major.

College/School
Arts and Sciences

Course Information

Course Title
Social Problems

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
1650

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Contemporary social problems.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Note:
(SOCI 1020, TTP Course)

Human Behavior in the Social Environment I

Course Information

Course Title
Behavior Social Environment I

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Orients students to theoretical content on the person-in-environment focus in Social Work. An ecological model with a lifespan approach is utilized to explore the periods from conception through late adulthood to understand individuals as they develop throughout the life cycle.

College/School
Arts and Sciences

Syllabus
HBSE I Syllabus Proposal.pdf

Human Behavior in the Social Environment II

Course Information

Course Title
Behavior Social Environment II

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This second course in the HBSE sequence expands the students' knowledge of theoretical content, building on the ecological model and lifespan approach to understand individuals as they develop and have membership in families, groups, communities, and organizations.

College/School
Arts and Sciences

Syllabus
HBSE II Syllabus Proposal.pdf

Course Information

Course Title
Cultural Ecology

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
2100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Interaction between human cultural systems and the physical environment in prehistoric through modern times.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Soc Class/Inequality in Am

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
2110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Current and comprehensive description of the social class structure, socioeconomic inequality, and related politics of American society.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Marriage & Family Relations

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
2630

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. A sociological approach to marriage and family living, dating, male-female roles, mate selection, martial adjustment, parenthood, widowhood, divorce, and remarriage.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Note:
(SOCI 2010, TTP Course)

Course Information

Course Title
Criminology

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
2660

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing. Crime, the criminal, and society's responses to the behavior.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing.

Course Information

Course Title
The Aged in Amer Society

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
2840

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Analysis of social, psychological, and economic problems in aging.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Responsible AI

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Incorporating the foundational elements of Responsible AI, students will submit questions and hear from industry executives and senior government officials on the real-world application of Responsible AI and cybersecurity. Students will develop an understanding of the importance of critical thinking to effectively communicate clearly, concisely, and bottom line upfront.

College/School
Arts and Sciences

Syllabus
Syllabus Responsible AI Spring 2025 (005) (3).pdf

Course Information

Course Title
Sociological Theory

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010. Survey of the development of major schools of thought in modern sociology with instruction and evaluation in oral presentations.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010.

Course Information

Course Title
Cyber Terrorism

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3140

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 American Government (Cyber edition) or consent of Instructor. Exploration of domestic and international cyber terror threats and concomitant responses by government and industry.

College/School
Arts and Sciences

Syllabus
cyber terrorism syllabus 2022.docx

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Social Psychology

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3150

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. This course will examine how individuals shape and are shaped by their social situations. There will be a particular emphasis on the symbolic interaction perspective with the goal of helping students better understand their identities and social interactions.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Cyberlaw

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3175

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or consent of Instructor. In-depth analysis of interactions between technology and the law.

College/School
Arts and Sciences

Syllabus
SOC4960 Syllabus Fall 2023.docx

Requisites and Restrictions

Prerequisite:
SOC 1010 or consent of Instructor.

Course Information

Course Title
Sociology of Sex & Gender

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3200

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010. A sociological perspective on the development and operation of gender with emphasis on social structure and culture

College/School
Arts and Sciences

Course Information

Course Title
Occupational Sociology

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3300

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. The social dimensions of occupations (both legitimate and deviant) with an emphasis on the troubles and tensions workers encounter.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Applied Sociology

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3550

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Applications of sociological knowledge and its relation to the context of interaction between sociologists and policy-makers.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Environmental Sociology

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3600

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Explores the relationship between society and the physical environment with emphasis on environmental usage patterns, environmental justice issues, and the causes and consequences of environmental pollution and over-population problems, with an orientation toward possible solutions of these problems.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Victimology

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3620

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or CJ 2660. Students must be majoring in SOC, SOC/CJ or SOC/SW. Non-majors may be admitted by consent of instructor. This course provides an in-depth analysis of the victims of criminal activity including: the various challenges victims face as they seek justice through the criminal justice system; the risk factors and probability of experiencing crime; and, specific theoretical perspectives that center on the victims of crime. Topics such as restorative justice and victim blaming are also explored.

College/School
Arts and Sciences

Course Information

Course Title
Cybercrime

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3640

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or CJ 2660 or consent of the instructor. This course provides a broad introduction into the world of cybercrime. Cybercrime includes various forms of criminal activity and is broadly defined as the destruction, theft or unauthorized or illegal use, modification or copying of information, programs, services, equipment, or communication networks.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or CJ 2660 or consent of the instructor.

Course Information

Course Title
Youth and Society

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3650

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing and SOC 1010. The study of the causes of juvenile misconduct, possible responses to the problem, and the system of juvenile justice.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing and SOC 1010.

Course Information

Course Title
Urban Sociology

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3710

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or consent of instructor. History of urbanization. Analysis of contemporary urban society and its social problems.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or consent of instructor. History of urbanization.

Course Information

Course Title
Rural Sociology

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3720

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Development of rural society, its relationship to urban society, and contemporary rural social problems.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Technology and Society

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3730

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Relationships of different types of technologies to different types of social and cultural systems.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Intro-Sociological Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3900

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 and three hours of sociology or consent of instructor. Methods of sociological research including considerations of research design, strategies, techniques, and procedures.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 and three hours of Sociology or consent of instructor.

Course Information

Course Title
Soc Science Stat Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3910

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or CJ 2660 or SW 1800. Introduction to basic statistics and their uses in the social sciences.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or CJ 2660 or SW 1800.

Course Information

Course Title
Introduction to Crime Analysis

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3911

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or CJ 2660. Sociology majors only. Non majors may be admitted by consent of instructor. This course provides students with a broad understanding of Microsoft Excel with application to crime analysis in order to prepare them for conducting advanced spatial analysis in CJ/SOC 4911.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 and SOC 2660.

Course Information

Course Title
Soc Applications Using SSPS

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
3920

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 3910. This course deals with applications of the Statistical Package for the Social Sciences (SPS) including: direct data input, data importation from other sources (i.e. national data base and Excel spreadsheets), and using SPSS to perform and interpret a wide variety of commonly used statistical applications in sociology ranging from descriptive statistics to multivariate analysis.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 3910.

Substance Misuse, Addiction and Recovery

Course Information

Course Title
Substance Misuse, Recovery

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Utilizing social work and sociological approaches, students explore the interconnected biological, psychological, social, and spiritual factors impacting substance misuse and substance use disorders; examine evidence-based practices for prevention, intervention, and recovery; and analyze the role of professionals at the micro-, mezzo-, and macro-levels in prevention, treatment, and recovery within diverse communities.

College/School
Arts and Sciences

Syllabus
Syllabus Substance Misuse & Recovery.docx

Course Information

Course Title
Organized Crime

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing and SOC 1010 or CJ (SOC) 2660. Organized crime in America as a product of legal, historical, cultural, and economic forces.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing and SOC 1010 or CJ 2660 or SOC 2660.

Course Information

Course Title
Law & Culture

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4040

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. A comparative cross-cultural analysis of primitive, traditional, and modern attitudes toward law, social control, punishment, and individual responsibility.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Crime and Media

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4050

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite SOC 1010 or SOC/CJ 2660 or consent of the instructor. An analysis of crimes, criminals, and punishment as they appear in American popular culture and various media.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 2660/CJ 2660 or consent of the instructor.

Course Information

Course Title
Sociology of Appalachia

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4080

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of the instructor. An exploration of the people, culture, and political economy of Appalachia.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Cross Cult Comm/Cult Diversity

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4090

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An examination of the socio-cultural context of communication with emphasis upon enhancing communication skills across cultures.

College/School
Arts and Sciences

Course Information

Course Title
Death and Dying

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: SOC 1010 or 1100 or consent of instructor. The social and cultural dimensions of death and dying in American society with emphasis on the meaning of death, the death industry, the social context of death and dying, and bereavement.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Race/Ethnicity/Multicultural

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4210

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Ethnic and cultural variations in the U.S. and similar mass societies. Emphasis on economic, political, and social relationships between ethnic groups.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Sociology of Mass Comm

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4220

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Historical and organizational analysis of various mass media and their content. Social issues and the mass media.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Sociology of Religion

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4320

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Cross-cultural analysis of religion as a social factor at the societal, organizational, and personality systems levels.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Population & Social Process

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4330

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Sociological analysis of the interrelationship between particular population characteristics and patterns of social organization.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
White Collar Crime

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4350

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010, or SOC 2660, or consent of the instructor. Criminological and sociological examination of offenders and victims of crimes in the world of business and government committed in the course of legitimate occupations.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010, or SOC 2660, or consent of instructor.

Course Information

Course Title
People in Organizations

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4430

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Analysis of the structures and processes of large bureaucratic organizations with emphasis on individuals' relationships to them.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Social Deviance

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4510

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Examination of various groups who are identified as deviant due to their unacceptable behavior and relative powerlessness.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Soc-Alcohol Abuse/Alcoholism

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4500

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: SOC 1010 or 1100 or consent of instructor. Sociological analysis of alcohol abuse and alcoholism, issues in prevention and rehabilitation, and implications for education.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Sexual Offenses and Offenders

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4515

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 Introduction to Sociology. This course provides a broad introduction in to the world of sexual offenses. Accordingly, this course will provide information on survivors of these crimes, perpetrators, as well as relevant sociological factors. An emphasis will be placed on understanding the perpetrator specifically.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010.

Course Information

Course Title
Patterns of Domestic Violence

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4520

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or CJ 2660 or consent of instructor. This course investigates all forms of domestic violence from a sociological perspective including theoretical explanations, prevalence, risk factors, dynamics of prevention, and intervention.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or CJ 2660 or consent of instructor.

Course Information

Course Title
Sociology of Murder

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4530

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or CJ 2660 or consent of the instructor. This course provides an analytical study of murder and violence in the United States. As such, course topics include: different types of homicide, offender characteristics, victim characteristics, etiological considerations of becoming an offender or victim, the role of social profiling in the investigation of various types of murder, theoretical approaches to the study of murder, and patterns and sources of violence. Taking into account the grisly topic, students who are disturbed by particularly heinous crimes should avoid enrolling in this course.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or CJ 2660 or consent of instructor.

Course Information

Course Title
Women and Crime

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4540

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Must be a major in: SOC; SOC/CJ or SOC/SW. Non-majors by permission from instructor. This course provides an in-depth analysis on women's involvement in both crime enforcement, and crime perpetration. The course examines how societal gender norms and concepts such as "femininity" impact women as law enforcers, perpetrators, and victims of crime.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or CJ 2660. Students must be majoring on SOC, SOC/CJ/, or SOC/SW. Non majors may be admitted by consent of instructor.

Course Information

Course Title
Contemporary Amer Family

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4610

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Models of family organization, variations in the institutional pattern, kinship, and basic social trends affecting the family.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Corrections

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4660

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing and SOC 1010 or CJ (SOC) 2660 or SW 1800. Correctional services, practices, and issues with particular attention to the maximum security adult institution.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing and SOC 1010 or CJ 2660 or SOC 2660 or SW 1800.

Course Information

Course Title
Concepts of Gerontology

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4810

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: PSY 3200 or 3300 or SOC 1010. Physical and psychosocial aging processes. Issues in the care of the senior adult.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
PSY 2130 or PSY 3300 or SOC 1010.

Course Information

Course Title
Medical Sociology

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4830

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Examination of the significance of the complex relationship between attitudes, beliefs relating to the underlying causes of disease, the level of health characteristics, appropriate treatment practices, and the role of the healer in various groups and societies.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Social Movements & Change

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4860

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or 1100 or consent of instructor. Analysis of social movements and other kinds of planned and unplanned change in society.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or SOC 1100 or consent of instructor.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4900

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisite: Nine hours of sociology. See instructor prior to enrolling. Students are placed with and work in a public or private agency which is compatible with their interests. (Students may take a maximum of two internships for up to a total of 6 hours of Internship. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements with any additional hours counting as upper division general elective hours).

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Nine hours of Sociology. See instructor prior to enrolling.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4901

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisite: Nine hours of sociology. See instructor prior to enrolling. Students are placed with and work in a public or private agency which is compatible with their interests. (Students may take a maximum of two internships for up to a total of 6 hours of Internship. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements with any additional hours counting as upper division general elective hours).

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Nine hours of sociology.

Course Information

Course Title
GIS Mapping for the Soc Sci

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4911

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites SOC 1010 Introduction to Sociology. This course provides a broad introduction into the world of geographic information systems (GIS) and their applicability to the social sciences - particularly criminal justice. Students are required to complete a major research project using GIS applications and to present the results.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4915

Credit Hours

Credit Hours:
6

Other Hours

Min:
6

Course Description
Six hour internships are only available for internships that offer special opportunities that are not available in a 3 hour internship. See instructor prior to enrolling to determine if an available internship opportunity qualifies for 6 hours of credit.

College/School
Arts and Sciences

Course Information

Course Title
Data Analysis & Mgmt

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4920

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 3900 and SOC 3910 The techniques of management and analysis of quantitative social science data from primary and secondary sources.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 3900 and SOC 3910.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4925

Credit Hours

Credit Hours:
9

Other Hours

Min:
9

Course Description
Nine hour internships are only available for internships that offer special opportunities that are not available in a 3 or 6 hour internship. The great majority of these will be summer internships that require the intern to work a 40 hour week. See instructor prior to enrolling to determine if an available internship opportunity qualifies for 9 hours of credit.

College/School
Arts and Sciences

Course Information

Course Title
Field Research Methods

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4930

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 3900 or consent of instructor. An in-depth examination and direct involvement with various qualitative research tools and techniques used by sociologists.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 3900 or consent of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4940

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4941

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4948

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Cross-listing: CJ 4948, SW 4948Credit 2.Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4949

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Cross-listing: CJ 4949, SW 4949Credit 2.Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4950

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. May be taken twice, provided that the topic is different.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4951

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Cross-listing: CJ 4951, SW 4951Credit 3.Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Cyberlaw

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4960

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or consent of Instructor. In-depth analysis of interactions between technology and the law.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 or consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4970

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4971

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4972

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4973

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4974

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4975

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4976

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4977

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4978

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4979

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4980

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4981

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4982

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4983

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4984

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4985

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4986

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4987

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4988

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4989

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4990

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4991

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4992

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4993

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4994

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4995

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4996

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4997

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4998

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Senior Seminar

Academic Level (Course Level)
Undergraduate

Course Subject Code
SOC

Course Number
4999

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisites: SOC 3100, 3910, 4920 or 4930, or by permission of instructor. Capstone course designed to be taken by sociology majors in the senior year. Course reviews major areas in the field of sociology in preparation for the Major Field Exam and in preparation for professional life.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Intro to Social Work

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
1800

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
An introduction to the organization and structure of professional social services including major interventive methods.

College/School
Arts and Sciences

Requisites and Restrictions

Note:
(SWRK 2010, TTP Course)

Human Behavior in the Social Environment I

Course Information

Course Title
Behavior Social Environment I

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Orients students to theoretical content on the person-in-environment focus in Social Work. An ecological model with a lifespan approach is utilized to explore the periods from conception through late adulthood to understand individuals as they develop throughout the life cycle.

College/School
Arts and Sciences

Syllabus
HBSE I Syllabus Proposal.pdf

Human Behavior in the Social Environment II

Course Information

Course Title
Behavior Social Environment II

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
2020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
This second course in the HBSE sequence expands the students' knowledge of theoretical content, building on the ecological model and lifespan approach to understand individuals as they develop and have membership in families, groups, communities, and organizations.

College/School
Arts and Sciences

Syllabus
HBSE II Syllabus Proposal.pdf

Course Information

Course Title
Responsible AI

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
3020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Incorporating the foundational elements of Responsible AI, students will submit questions and hear from industry executives and senior government officials on the real-world application of Responsible AI and cybersecurity. Students will develop an understanding of the importance of critical thinking to effectively communicate clearly, concisely, and bottom line upfront.

College/School
Arts and Sciences

Syllabus
Syllabus Responsible AI Spring 2025 (005) (3).pdf

Course Information

Course Title
Cyber Terrorism

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
3140

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: POLS 1030 American Government (Cyber edition) or consent of Instructor. Exploration of domestic and international cyber terror threats and concomitant responses by government and industry.

College/School
Arts and Sciences

Syllabus
cyber terrorism syllabus 2022.docx

Requisites and Restrictions

Prerequisite:
POLS 1030 or consent of instructor.

Course Information

Course Title
Cyberlaw

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
3175

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 or consent of Instructor. In-depth analysis of interactions between technology and the law.

College/School
Arts and Sciences

Syllabus
SOC4960 Syllabus Fall 2023.docx

Requisites and Restrictions

Prerequisite:
SOC 1010 or consent of Instructor.

Course Information

Course Title
Intro to Sociological Research

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
3900

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: SOC 1010 and three hours of sociology or consent of instructor. Methods of sociological research, including considerations of research design, strategies, techniques, and procedures.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
SOC 1010 and three hours of Sociology or consent of instructor.

Substance Misuse, Addiction and Recovery

Course Information

Course Title
Substance Misuse, Recovery

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4000

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
Utilizing social work and sociological approaches, students explore the interconnected biological, psychological, social, and spiritual factors impacting substance misuse and substance use disorders; examine evidence-based practices for prevention, intervention, and recovery; and analyze the role of professionals at the micro-, mezzo-, and macro-levels in prevention, treatment, and recovery within diverse communities.

College/School
Arts and Sciences

Syllabus
Syllabus Substance Misuse & Recovery.docx

Course Information

Course Title
Rural Social Work

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4005

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course examines the unique challenges and opportunities of social work practice in rural communities. Students will explore the demographic, economic, cultural, and geographic factors that shape service delivery and client experiences in rural contexts. Emphasis is placed on the strengths and resilience of rural populations, the impact of limited resources and social services, and the importance of collaboration, innovation, and advocacy in addressing community needs. Topics include health disparities, poverty, substance use, mental health access, ethical dilemmas in small communities, and the role of social workers as generalist practitioners. Students will analyze policies affecting rural areas, evaluate strategies for community engagement and capacity building, and develop culturally responsive and contextually appropriate approaches to practice. Through case studies, applied projects, and reflective learning, students will strengthen competencies for advancing equity and social justice in rural settings.

College/School
Arts and Sciences

Syllabus
SW 4005 Rural Social Work.docx

Requisites and Restrictions

Prerequisite:
SW 1800 and SW 2010.

Course Information

Course Title
School Social Work

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course provides an in-depth exploration of social work practice in K–12 educational settings, emphasizing the promotion of academic, social, and emotional well-being of children and adolescents. Students will examine the historical and contemporary roles of school social workers, relevant laws, policies, and the intersection of schools with families and communities. The course emphasizes assessment, prevention, intervention, and advocacy strategies addressing issues such as poverty, trauma, bullying, absenteeism, behavioral challenges, and special education. Students will learn to collaborate with educators, administrators, families, and community partners to foster safe, inclusive, and supportive learning environments. Cultural humility, ethical decision-making, and the advancement of equity and social justice in schools will be central themes. Through case studies, applied projects, and experiential learning, students will develop competencies in delivering effective services and advocating for systemic change within educational systems.

College/School
Arts and Sciences

Syllabus
SW 4010 School Social Work.docx

Requisites and Restrictions

Prerequisite:
SW 1800 and SW 2010.

Course Information

Course Title
Medical Social Work

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4015

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course examines the role of social workers in healthcare settings, focusing on the integration of psychosocial care with medical treatment. Students will explore the impact of illness, disability, and health disparities on individuals and families, and learn to provide assessment, intervention, and advocacy within interdisciplinary healthcare teams. Emphasis is placed on culturally responsive and trauma-informed practice, ethical decision-making, and addressing barriers to care such as poverty, stigma, and systemic inequities. Topics include chronic illness, end-of-life care, mental health in medical settings, patient and family support, and healthcare policy and reform. Through case studies, role plays, and applied assignments, students will develop competencies in patient advocacy, care coordination, crisis intervention, and linking clients with community resources. The course prepares students to practice effectively in hospitals, clinics, long-term care facilities, and other health-related environments.

College/School
Arts and Sciences

Syllabus
SW 4015 Medical Social Work.docx

Requisites and Restrictions

Prerequisite:
SW 1800 and SW 2010.

Course Information

Course Title
Forensic Social Work

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4020

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course explores the intersection of social work and the legal system, preparing students for practice in forensic settings. Students will examine the roles of social workers in criminal justice, child welfare, mental health courts, corrections, and related environments where legal and clinical issues converge. Emphasis is placed on assessment, intervention, case management, and expert testimony in cases involving abuse, neglect, trauma, substance use, and violence. Students will also study relevant laws, ethical dilemmas, and the impact of systemic inequality, racism, and oppression within legal systems. The course highlights evidence-based and trauma-informed practices that promote rehabilitation, human rights, and restorative justice. Through case studies, applied exercises, and critical analysis, students will develop competencies in working with justice-involved individuals, families, and communities, while advocating for equitable and humane policies.

College/School
Arts and Sciences

Syllabus
SW 4020 Forensic Social Work.docx

Requisites and Restrictions

Prerequisite:
SW 1800 and SW 2010.

Social Work with Children and Youth

Course Information

Course Title
Social Work with Children

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4025

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course examines theories, practices, and policies relevant to social work with children and adolescents in diverse settings. Using developmental, ecological, and trauma-informed frameworks, students explore the unique needs and strengths of young people. The course emphasizes assessment, engagement, and intervention strategies promoting safety, resilience, and well-being across child welfare, schools, juvenile justice, and community-based contexts. Students will learn to apply evidence-based models, address challenges related to poverty, abuse, neglect, and systemic inequities, and collaborate with families, caregivers, and interdisciplinary teams. Advocacy and policy practice for improving outcomes are integral. Through case studies, applied projects, and reflective exercises, students will develop competencies in direct practice and systems-level intervention with young populations.

College/School
Arts and Sciences

Syllabus
SW 4025 Social Work with Children & Youth.docx

Requisites and Restrictions

Prerequisite:
SW 1800 and SW 2010.

Course Information

Course Title
Probation and Parole

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4100

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing and SOC 1010 or CJ (SOC) 2660 or SW 1800. Probation and parole services with special attention to current practices and issues.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing and SOC 1010 or CJ 2660 or SOC 2660 or SW 1800.

Poverty, Inequality, & Social Justice

Course Information

Course Title
Poverty, Inequality Soc Just.

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4110

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course critically examines the structural, economic, and social dimensions of poverty and inequality in the United States and globally, with a focus on their implications for social work practice. Students will explore historical and contemporary theories of poverty, the role of social policy, and the intersections of race, class, gender, and other identities in shaping experiences of disadvantage. Emphasis will be placed on analyzing systemic barriers, understanding the lived realities of marginalized populations, and evaluating policy and practice interventions designed to promote equity and social justice. Through online readings, case studies, discussion forums, and applied projects, students will strengthen their capacity to advocate for social change, advance human rights, and engage in practice that challenges oppression and fosters inclusion.

College/School
Arts and Sciences

Syllabus
06 SW 4110 Poverty, Inequality, & Social Justice syllabus.docx

Requisites and Restrictions

Prerequisite:
SW 1800 and SW 2010.

Course Information

Course Title
Case Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4120

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Course Description
Prerequisite: Sophomore standing and SOC 1010 or CJ (SOC) 2660 or SW 1800. Individual and group methods used in counseling and treating offenders in both the institutional and community setting.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Sophomore Standing and SOC 1010 or CJ 2660 or SOC 2660 or SW 1800.

Introduction to Social Welfare Policy

Course Information

Course Title
Intro Social Welfare Policy

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4175

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

Course Description
This course provides a foundational overview of social welfare policy in the United States, with attention to its historical development, philosophical underpinnings, and impact on diverse populations. Students will examine the values, political ideologies, and economic forces that shape social policy, as well as the role of government, advocacy groups, and social movements in influencing policy outcomes. Emphasis is placed on understanding how social welfare policies address issues such as poverty, inequality, health, housing, and child welfare, and how these policies intersect with race, class, gender, and other dimensions of identity. Students will learn to critically analyze policies using frameworks that assess effectiveness, equity, and social justice, and will develop skills to advocate for policy reforms that advance human rights and improve the well-being of vulnerable and marginalized populations.

College/School
Arts and Sciences

Syllabus
06 SW 4175 Introduction to Social Welfare Policy syllabus.docx

Requisites and Restrictions

Prerequisite:
SW 1800 and SW 2010.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4900

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Number Of Repeats:
1

Course Description
Prerequisite: Nine hours of sociology. See instructor prior to enrolling. Students are placed with and work in a public or private agency which is compatible with their interests. (Students may take a maximum of two internships for up to a total of 6 hours of Internship. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements with any additional hours counting as upper division general elective hours).

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Nine hours of Sociology. See instructor prior to enrolling.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4901

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Nine hours of sociology. See instructor prior to enrolling. Students are placed with and work in a public or private agency which is compatible with their interests. (Students may take a maximum of two internships for up to a total of 6 hours of Internship. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements with any additional hours counting as upper division general elective hours).

College/School
Arts and Sciences

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4915

Credit Hours

Credit Hours:
6

Other Hours

Min:
6

Course Description
Six hour internships are only available for internships that offer special opportunities that are not available in a 3 hour internship. See instructor prior to enrolling to determine if an available internship opportunity qualifies for 6 hours of credit.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Nine hours of Sociology.

Course Information

Course Title
Internship

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4925

Credit Hours

Credit Hours:
9

Other Hours

Min:
9

Course Description
Nine hour internships are only available for internships that offer special opportunities that are not available in a 3 or 6 hour internship. The great majority of these will be summer internships that require the intern to work a 40 hour week. See instructor prior to enrolling to determine if an available internship opportunity qualifies for 9 hours of credit.

College/School
Arts and Sciences

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4940

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4941

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4948

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Cross-listing: CJ 4948, SOC 4948Credit 2.Prerequisite: Consent of instructor. Allows the student to undertake study in an area of Sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for Upper Division credit to fulfill major or minor requirements

College/School
Arts and Sciences

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4949

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Course Description
Cross-listing: CJ 4949, SOC 4949Credit 2.Prerequisite: Consent of instructor. Allows the student to undertake study in an area of Sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for Upper Division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4950

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Cross-listing: CJ 4950, SOC 4950 (5950)Credit 3.Prerequisite: Consent of instructor. Allows the student to undertake study in an area of Sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for Upper Division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Independent Study

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4951

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Cross-listing: CJ 4951, SOC 4951Credit 3.Prerequisite: Consent of instructor. Allows the student to undertake study in an area of Sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for Upper Division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4970

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4971

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4972

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4973

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4974

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4975

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4976

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4977

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4978

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4979

Credit Hours

Credit Hours:
1

Other Hours

Min:
1

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4980

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4981

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4983

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4982

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4984

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4985

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4987

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4986

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4988

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4989

Credit Hours

Credit Hours:
2

Other Hours

Min:
2

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4990

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Requisites and Restrictions

Prerequisite:
Consent of instructor.

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4991

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4993

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4992

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4994

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4995

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4997

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4996

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4998

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Repeatable for Credit:
Yes

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Special Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
4999

Credit Hours

Credit Hours:
3

Other Hours

Min:
3

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students may take a total of up to 6 hours of Special Topics hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

College/School
Arts and Sciences

Course Information

Course Title
Intro/Women & Gender Studies

Academic Level (Course Level)
Undergraduate

Course Subject Code
WGS

Course Number
2010

Credit Hours

Credit Hours:
3

Lecture Hours

Min:
3

Repeatable for Credit:
No

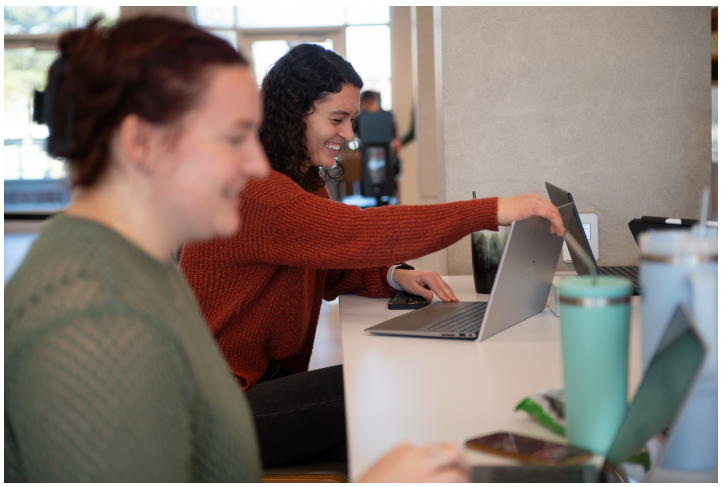
Course Description
Interdisciplinary, team-taught examination of issues in women and gender studies.

College/School
Arts and Sciences

Requisites and Restrictions

Approved General Education Requirement:
♦ Meets Tennessee Technological University general education requirement (Social/Behavioral Sciences).

TN eCampus Degree Program Department



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TN eCampus Resources

- **TN eCampus Course Login**
- **Virtual Bookstore**
- **Academic Calendar**
- **Syllabus Library**
  NOTE: Syllabi in the library may be used for reference before course registration, but always refer to the actual course syllabus in the course content once access begins.
- **TN eCampus Help Desk**

TN eCampus Student Liaison

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