

Isothermal Community College

2026-2027 Isothermal Community College Catalog, Volume XXXVII, May 2026

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Welcome from the President



Welcome to Isothermal Community College (ICC)! We are excited that you have made the choice to take the next step in your educational and professional journey. At ICC, we are focused on your future, your goals, and your success. Our experienced faculty and staff are ready to guide and support you as you gain new knowledge and skills that will allow you to thrive both at ICC and beyond.

Whether you are confident in your next steps or feeling a bit uncertain about what the future holds, at ICC, you will find the support you need to navigate college successfully, meet new people who share your interests, learn from and with faculty, staff, and peers, and develop the skills to take control of whatever the future brings.

With programs in health care, public service, business, engineering, technology, arts, sciences, education, and more, our facilities located in Rutherford and Polk counties offer a diverse range of academic and career pathways. At Isothermal, we are committed to “improving life through learning.”

Whether you are seeking a certificate, diploma, or degree that leads to a successful career or transfer to a university, ICC is a great place to start as you pursue your educational and career goals. At Isothermal Community College, we have seen the opportunities of the future, and they begin today!

Again, welcome to ICC!

Dr. Margaret H. Annunziata, President

College Mission, Vision, and Values

OUR MISSION

As an integral community partner, Isothermal Community College exists to improve life through learning by providing innovative, affordable educational programs and inclusive opportunities for personal, professional, economic, and cultural development.

VISION STATEMENT

To be the benchmark for excellence in learning, innovation, service, and economic development.

VALUES

In improving life through learning, we embrace our commitment to each student and community member through our values framework.

• **C**onnection to Opportunity
• **A**ccessible Learning
• **R**esponsive Support
• **E**mpowerment and Belonging
• **S**ervice Excellence and Integrity

Isothermal Community College, a member of the North Carolina Community College System, is a comprehensive, two-year, public institution that serves the individuals in Rutherford and Polk counties.

In addition to individual courses, the College offers certificate, diploma, and degree programs enabling students to either transfer to a four-year institution or acquire skills for new or current employment, as well as function effectively as responsible citizens. The College also provides training for area business and industry, personal enrichment courses, remedial and developmental courses, and community service activities.

Isothermal Community College provides educational and employment opportunities without regard to race, color, religion, national origin, age, gender, veteran status, or disability. For more information, contact: Dr. Madeline Smith, Vice President of Operations Isothermal Community College, P.O. Box 804, Spindale, NC 28160, or call 828-395-1293

ACCREDITATION

Isothermal Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate degrees. Isothermal Community College also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Isothermal Community College 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).

THE ISOTHERMAL DISTINCTION

Students who complete programs at Isothermal Community College are expected to be able to function effectively as contributing citizens of our society. Our programs, regardless of their content areas, are designed to enable graduates to achieve the following general competencies:

- Communicate effectively through writing, speaking, and through demonstration of information literacy
- Analyze problems and make valid conclusions
- Demonstrate quantitative skills
- Demonstrate basic technology skills
- Perform technical skills in their chosen occupations

Achieving these competencies requires a commitment on the part of both Isothermal and its students to the satisfaction of certain goals and expectations.

We also value, promote, and emphasize the following soft skills:

- Demonstrate positive interpersonal skills through cooperative learning and group interaction
- Use critical listening skills to understand, evaluate, and respond appropriately to verbal communication

- Develop an awareness of global issues and the interconnectedness and interdependence of persons, places,

and events on earth from a current as well as historical perspective

WHAT STUDENTS CAN EXPECT OF ISOTHERMAL

In their commitment to learning and to the achievement of a true learning-centered community, Isothermal personnel will:

- Meet student needs by demonstrating professional, friendly, and courteous service in all aspects of student life
- Maintain high professional and academic standards
- Serve as role models in the development of leadership skills
- Respect diversity and treat all students fairly
- Be available to students and helpful with student problems
- Communicate clear learning objectives and expected outcomes
- Provide timely feedback in the assessment of learning outcomes
- Stay current in the subject matter
- Practice effective teaching/learning strategies that promote critical thinking

WHAT ISOTHERMAL EXPECTS OF STUDENTS

In their commitment to learning, students will:

- Accept responsibility for learning
- Attend and participate in all classes
- Complete required exercises and assignments as directed
- Develop a time management plan that includes adequate time for study
- Maintain an open-minded attitude toward learning
- Strive to become independent critical thinkers
- Seek help as needed from appropriate sources
- Be respectful and considerate of others
- Assume responsibility for knowing and adhering to all college policies
- Acknowledge that learning how to learn is the ultimate objective of education
- Recognize that struggle and discomfort often precede the rewards that accompany goal completion and success

With this commitment on the part of all concerned, an exciting partnership will grow and thrive, thus creating a community of learners whose mission is to improve life through learning.

History of Isothermal Community College

Founded in 1964, Isothermal Community College serves Rutherford and Polk counties in the beautiful foothills of western North Carolina. Isothermal, so named because of the region's steady climate, is a comprehensive, two-year public institution and is a part of the North Carolina Community College System. Isothermal's mission is to "improve life through learning."

The college offers 43 unique programs of study, including college transfer, vocational, and technical programs leading to a two-year associate degree, a one-year diploma, or certificate. Isothermal also provides training for area business and industry, personal enrichment courses, adult basic education, adult high school programs, and developmental courses.

The college's Customized Training programs have assisted local businesses in creating hundreds of jobs. In recent years, the college has helped Trelleborg, Meta, Befesa Zinc Metal, Shaw Construction, Cardinal Tissue, West Rock, Ultra Machining, Timken, Parker-Hannifin, and many others.

The institution is accredited to award associate degrees by the Commission on Colleges of the Southern Association of Colleges and Schools. As of Fall 2023, approximately 2,000 students were enrolled in curriculum courses at Isothermal. Thousands participate annually in the college's wide range of continuing education programs.

The main campus is on approximately 181 acres in Spindale. Perched on the shore of an 11-acre lake, the campus is home to The Foundation Performing Arts and Conference Center, the area's premier venue for the arts and other special events. In 2024, The Foundation Performing Arts and Conference Center celebrated its 25th anniversary. The venue has hosted scores of wonderful performances by acts as varied as the National Symphony, the North Carolina Symphony, Charlie Daniels, Merle Haggard, the North Carolina Dance Theater, Mickey Rooney, the Acting Company, Loretta Lynn, and Doc Watson. In addition, The Foundation hosts a variety of meeting and banquet functions ranging from weddings and proms to trade shows and corporate retreats.

The Rutherford campus is also home to Rutherford Early College High School (REaCH), a collaboration with Rutherford County Schools that allows students to obtain a college degree while attending high school. In 2013, REaCH was named a Blue Ribbon School by the federal Department of Education, a prestigious designation given to only a handful of schools.

Polk County Early College is in Columbus and provides an enriching experience for Polk County high school students.

Isothermal also offers a variety of online courses and has various joint programs with Gardner-Webb University, Appalachian State University, Western Carolina University, and many other four-year institutions.

The college also owns and operates WNCW 88.7 FM, a 30-year-old award-winning public radio station that can be heard in parts of five states: North Carolina, South Carolina, Virginia, Tennessee, and Georgia, and worldwide through online streaming.

The Isothermal Polk Campus is in Columbus and opened in the fall of 1989. The Polk Campus offers a variety of programs, such as massage therapy, equine studies, adult high school diploma, driving safety classes, and a variety of additional continuing education classes.

In August 2013, the college opened the Rutherfordton Learning Center (RLC), in cooperation with Rutherford County Schools, to provide administrative and instructional spaces for the Associate Degree Nursing and Practical Nurse Education programs. Continuing Education programs, including Certified Nursing Assistant, were already operating at the RLC. It is located in downtown Rutherfordton, approximately four miles from the main campus and near Rutherford Regional Medical Center.

In 2019, the Walter H. Dalton Engineering Technologies and Workforce Development Center opened. That facility features flexible space that houses workforce development projects with community partners, including Trelleborg and Duke Energy.

Dr. Margaret Annunziata has served as the college's president since February 2021. She follows the Honorable Walter Dalton, former Lieutenant Governor of North Carolina, who was appointed president in May 2013. The preceding president was Dr. Myra Johnson, who served in that capacity for six years.

Welcome from the President

News Stories, Announcements, and Publications

NEWS STORIES AND ANNOUNCEMENTS

The latest College news releases, feature stories, photography, and upcoming events announcements may be accessed from the College's website at www.isothermal.edu. On the homepage, select the News link to go to news events and features. Most news found at this location will be posted for approximately one month. News announcements are also posted in a variety of locations on the Isothermal website, emailed to student accounts, and posted on Facebook, Instagram, and X.

Isothermal Community College news announcements and feature stories can be found on a regular basis in The Daily Courier newspaper (Rutherford County) and The Tryon Daily Bulletin (Polk County).

Isothermal Community News (ICN)
Students in the Audio and Video Production Technology program provide ongoing news, announcements, and information through ICN. Each edition is available by subscribing to Isothermal TV on YouTube.

PUBLICATIONS

The Anuran is an annual literary journal that showcases the exceptional work of Isothermal Community College students and the community. The Anuran is the culmination of an annual contest in poetry, essay, photography, and cover design.

Notice of Availability of Institutional and Financial Aid Information
Isothermal Community College distributes consumer information to students through various sources, including the College Catalog and the Student Handbook, and on the website. Printed copies are available upon request in Student Affairs.

College Catalog and the Student Handbook
The College Catalog and the Student Handbook are Isothermal's primary sources of information regarding curriculum programs and course descriptions, other educational programs, administrator and faculty credentials, general educational competencies, and educational facilities. It also provides information on successfully navigating the college experience at Isothermal Community College.

Other Publications
Each student is responsible for observing the procedures, regulations, and requirements of the College as they are announced here and in other official college publications. Information, policies, and procedures may vary by program, e.g., Career and College Promise (CCP), Practical Nursing, Associate Degree Nursing, Cosmetology, Dental Assisting, Dental Hygiene, and Basic Law Enforcement Training (BLET). Information regarding specific programs is available in departmental areas.

Publication of Policies and Procedures

In publishing policies and procedures, the College does not recognize any implied contract as having validity beyond the present academic college catalog year. The president reserves the right to make changes in curricula and regulations when such changes are in the best interest of the students and the College. Until revised, the current College Catalog is the college catalog of record for all students seeking to complete certificates, diplomas, or degrees in the current academic year. Students enrolled prior to the fall of 1997 must confer with their college navigator/faculty mentor and the Records Office in order to determine semester equivalents of quarter course credits.

Board of Trustees

Board of Trustees as of July 1, 2025

The Board of Trustees has the essential role of providing strategic direction, maintaining institutional integrity, ensuring fiscal responsibility, and representing the interests of the community in the governance of a community college. Isothermal Community College extends its gratitude to our Board Members and Commissioners for their devotion to supporting and advancing the college's mission throughout Rutherford and Polk Counties.

Appointed by Rutherford County Commissioners
Michael Benfield
Dr. Seema Daigle
Grady Franklin
Dave Hunt
Amy Jenkins

Appointed by the Governor of North Carolina
Student Government Association President
Jackie Godlock
James Hutchins

Appointed by the Polk County Commissioners
Bill Miller
Marche’ Pittman
Dana Stansbury

Appointed by the Speaker of the House of Representatives
Jordan Barnes
Steve Bedford

Appointed by the Speaker Pro Tempore of the Senate
Tony Helton
Bryson Smith

Academic Calendars and Important Dates

Academic Calendars and Important Dates

We encourage you to familiarize yourself with important dates to stay informed and plan your academic journey effectively. Please refer to the college calendar at events.isothermal.edu for the most current version of academic-related postings.

Fall 2026

Fall 2026

Curriculum Course Schedule

	Full Semester Courses (16 weeks)	**Term 1 Courses (First 8 weeks)**	**Term 2 Courses* (Second 8 weeks)**
Fall 2026 Early Registration	March 30 - July 31, 2026	March 30 - July 31, 2026	March 30 - July 31, 2026
Final Days of Fall 2026 Registration	August 11-18	August 11-18	August 11-18; September 23 – October 16
Last Day to Drop with 100% Refund	August 18	August 18	October 16
First Day of Classes	August 19	August 19	October 19
Schedule Adjustment	August 19-20	August 19-20	August 19-20; October 19
Census (10% Point of Course) Last Day to Request 75% Refund	August 28	August 24	October 22
Last Day to Withdraw with a “W”	December 4	October 5	December 4
Spring 2027 Early Registration	October 26- December 18, 2026	October 26- December 18, 2026	October 26- December 18, 2026
Last Day of Classes	December 11	October 12	December 11

*When seeking to enroll in Term 2, Term 3, or Term 4 courses after the full-term census date, students should communicate with Financial Aid staff for questions about aid eligibility.

Career and College Promise (CCP) course schedules may vary. Students enrolled in CCP courses should check each course syllabus for important schedule information.

Important Dates

July 31, 2026	Friday	Payment Due for Fall Early Registration
August 10, 2026	Monday	Convocation; College Closed
August 11, 2026	Tuesday	Fall final registration open through 08/18
August 18, 2026	Tuesday	Payment Due for Fall final registration
August 19, 2026	Wednesday	Fall Term Begins (Full Term and Term 1); Day 1 of Schedule Adjustment
August 20, 2026	Thursday	Day 2 (End) of Schedule Adjustment
August 24, 2026	Monday	Term 1 Census
August 25, 2026	Tuesday	Big Blue Welcome
August 28, 2026	Friday	Full Term Census
September 7, 2026	Monday	Labor Day; College Closed
September 23, 2026	Wednesday	Registration for Fall Term 2 opens through 10/16
September 24, 2026	Thursday	Pell Disbursement
October 5, 2026	Monday	Last Day to Withdraw- Term 1
October 12, 2026	Monday	Term 1 Ends
October 12, 2026	Monday	Bookstore charges for Term 2 open through 10/26
October 26, 2026	Monday	Bookstore charges for Term 2 end
October 28, 2026	Wednesday	Grub Day (classes in session)
October 30, 2026	Friday	Fall Graduation Application Deadline
November 17, 2026	Tuesday	Pell Disbursement
November 25, 2026	Wednesday	Employee Leave Day; College Closed to the Public
November 26, 2026	Thursday	Thanksgiving Holiday; College Closed
November 27, 2026	Friday	Thanksgiving Holiday; College Closed
December 4, 2026	Friday	Last Day to Withdraw (Full Term and Term 2)
December 11, 2026	Friday	Term 2 and Full Term End
December 14, 2026	Monday	Checkout

December 15, 2026	Tuesday	Faculty Break; No Classes
December 16, 2026	Wednesday	Faculty Break; No Classes
December 17, 2026	Thursday	Faculty Break; No Classes
December 18, 2026	Friday	Payment Due for Spring Early Registration (10/26 – 12/18)
December 18, 2026	Friday	Last day of SP/SU Early Registration; Faculty Break
December 21, 2026	Tuesday	Employee Leave Day; College Closed to the Public
December 22, 2026	Tuesday	Winter Holiday and Annual Leave; College Closed
December 23, 2026	Wednesday	Winter Holiday and Annual Leave; College Closed
December 24, 2026	Thursday	Winter Holiday and Annual Leave; College Closed
December 25, 2026	Friday	Winter Holiday and Annual Leave; College Closed
December 26, 2026	Saturday	Winter Holiday and Annual Leave; College Closed
December 27, 2026	Sunday	Winter Holiday and Annual Leave; College Closed
December 28, 2026	Monday	Winter Holiday and Annual Leave; College Closed
December 29, 2026	Tuesday	Winter Holiday and Annual Leave; College Closed
December 30, 2026	Wednesday	Winter Holiday and Annual Leave; College Closed
December 31, 2026	Thursday	Winter Holiday and Annual Leave; College Closed

Basic Law Enforcement Training (BLET) Course Schedule

	Course Term
Daytime BLET Program	August 19, 2026– January 2027

Please refer to the college calendar at events.isothermal.edu for the most current version of academic-related postings.

Spring 2027

Spring 2027

Curriculum Course Schedule

	Full Semester Courses (16 weeks)	**Term 1 Courses (First 8 weeks)**	**Term 2 Courses* (Second 8 weeks)**
Spring 2026 Early Registration	October 26– December 18, 2026	October 26– December 18, 2026	October 26– December 18, 2026
Final Days of Spring 2027 Registration	January 4-7	January 4-7	January 4-7; February 17 - March 12
Last Day to Drop with 100% Refund	January 8	January 8	March 12
First Day of Classes	January 11	January 11	March 15
Schedule Adjustment	January 11-12	January 11-12	January 11-12; March 15
Census (10% Point of Course) Last Day to Request 75% Refund	January 21	January 14	March 18
Summer/ Fall 2027 Early Registration	February 17- March 12, 2027 (summer only; March 30- April 30, 2027 (Summer and fall)	February 17- March 12, 2027 (summer only; March 30- April 30, 2027 (Summer and fall)	February 17- March 12, 2027 (summer only; March 30- April 30, 2027 (Summer and fall)
Last Day to Withdraw with a “W”	April 30	February 25	April 30
Last Day of Classes	May 7	March 4	May 7

*When seeking to enroll in Term 2, Term 3, or Term 4 courses after the full-term census date, students should communicate with Financial Aid staff for questions about aid eligibility.

Career and College Promise (CCP) course schedules may vary. Students enrolled in CCP courses should check each course syllabus for important schedule information.

Important Dates

Date	Weekday	Event/Activity
January 1, 2027	Friday	New Year's Holiday; College Closed
January 4, 2027	Monday	Bookstore charges for Spring begin – open through 1/29
January 4, 2027	Monday	Spring final registration open through 1/7
January 7, 2027	Thursday	Payment Due for Spring Final Registration (1/4 – 1/7)
January 8, 2027	Friday	Spring Convocation; College Closed
January 11, 2027	Monday	Spring Term Begins (Full Term and Term 1; Day 1 of Schedule Adjustment
January 12, 2027	Tuesday	Day 2 (End) of Schedule Adjustment
January 14, 2027	Thursday	Term 1 Census
January 18, 2027	Monday	Dr. Martin Luther King Jr. Holiday; College Closed
January 21, 2027	Thursday	Full Term Census
January 29, 2027	Friday	Bookstore charges end for Term 1 and Full Term
February 17, 2027	Wednesday	Registration for Spring Term 2 open through 03/12
February 18, 2027	Thursday	Pell Disbursement
February 25, 2027	Thursday	Last Day to Withdraw – Term 1
March 4, 2027	Thursday	Term 1 Ends
March 5, 2027	Friday	Checkout; No Classes
March 8, 2027	Monday	Bookstore charges for Spring Term 2 begin – Open through 3/22
March 8, 2027	Monday	Spring Student Break; No Classes
March 9, 2027	Tuesday	Spring Student Break; No Classes
March 10, 2027	Wednesday	Spring Student Break; No Classes
March 11, 2027	Thursday	Spring Student Break; No Classes
March 12, 2027	Friday	Spring Student Break; No Classes
March 12, 2027	Friday	Spring Registration Term 2 Ends
March 12, 2027	Friday	Payment for Spring Term 2 Due by noon

March 15, 2027	Monday	Term 2 Begins; Term 2 Schedule Adjustment (one day only)
March 18, 2027	Thursday	Term 2 Census
March 22, 2027	Monday	Bookstore charges for Spring Term 2 ends
March 26, 2027	Friday	College Holiday; College Closed
March 29, 2027	Monday	College Holiday; College Closed
April 13, 2027	Tuesday	Sports Day (classes in session)
April 14, 2027	Wednesday	Pell Disbursement
April 16, 2027	Friday	Science Expo (Tentative)
April 30, 2027	Friday	Summer early registration end
April 30, 2027	Friday	Payment due for Summer early registration (02/17 – 04/30)
April 30, 2027	Friday	Last Day to Withdraw (Full Term and Term 2)
May 7, 2027	Friday	Term 2 and Full Term Ends
May 10, 2027	Monday	Full Term and Term 2 Checkout; No Classes

Basic Law Enforcement Training (BLET) Course Schedule

	Course Term
Daytime BLET Program	March 2027 - July 2027

Please refer to the college calendar at events.isothermal.edu for the most current version of academic-related postings.

Academic Calendars and Important Dates

Summer 2027

Summer 2027

Curriculum Course Schedule

	Full Semester (10 weeks)	**Term 1 (8 weeks)**	**Term 3 (first 4 weeks)**	**Term 4 (second 4 weeks)**
Summer 2026 Early Registration	October 26, 2026 – April 30, 2027	October 26, 2026 – April 30, 2027	October 26, 2026– April 30, 2027	October 26, 2026 – April 30, 2027
Final Day of Summer 2027 Registration	May 17-21	May 17-21	May 17-21	May 17-21
Last Day to Drop with 100% Refund	May 21	May 21	May 21	June 25
First Day of Classes	May 24	May 24	May 24	June 28
Schedule Adjustment	May 24	May 24	May 24	June 28
Census (10% Point of Course) Last Day to Request 75% Refund	May 28	May 27	May 25	June 29
Fall 2026 Early Registration	March 30, 2027- TBD	March 30, 2027- TBD	March 30, 2027- TBD	March 30, 2027- TBD
Last Day to Withdraw with a “W”	July 21	July 8	June 17	July 21
Last Day of Classes	July 28	July 15	June 24	July 28

*When seeking to enroll in Term 2, Term 3, or Term 4 courses after the full-term census date, students should communicate with Financial Aid staff for questions about aid eligibility.

Career and College Promise (CCP) course schedules may vary. Students enrolled in CCP courses should check each course syllabus for important schedule information.

Important Dates

Date	Weekday	Event/Activity
February 17, 2027	Wednesday	Registration for Summer open through 04/30
May 13, 2027	Thursday	Faculty Break; No Classes; Commencement Rehearsal
May 14, 2027	Friday	Faculty Break; No Classes
May 15, 2027	Saturday	Commencement
May 17, 2027	Monday	Summer final registration open through 05/21
May 17, 2027	Monday	Bookstore charging open through 06/04
May 24, 2027	Thursday	Summer Term Begins (Term 1,3, and Full); Schedule Adjustment (one day only)
May 25, 2027	Tuesday	Term 3 Census
May 27, 2027	Thursday	Term 1 Census
May 28, 2027	Friday	Full Term Census
May 31, 2027	Monday	Memorial Day; College Closed
June 4, 2027	Friday	Bookstore charges close for summer
June 17, 2027	Thursday	Last day to withdraw from Summer Term 3
June 24, 2027	Thursday	Term 3 Ends
June 24, 2027	Thursday	Pell Disbursement
June 25, 2027	Friday	Term 3 Checkout; Full Term and Term 1 Classes in Session
June 28, 2027	Monday	Term 4 Begins
June 29, 2027	Tuesday	Term 4 Census
July 5, 2027	Monday	College Holiday; College Closed
July 8, 2027	Thursday	Last Day to Withdraw (Term 1)
July 15, 2027	Thursday	Summer Term 1 Ends
July 16, 2027	Friday	Term 1 Checkout; No Classes
July 21, 2027	Wednesday	Last Day to Withdraw (Full Term and Term 4)
July 28, 2027	Wednesday	Term 4 and Full Term End
July 29, 2027	Thursday	Full Term and Term 4 Checkout; No Classes

July 30, 2027	Friday	Payment due for Fall early registration (03/30 – 07/30)

Please refer to the college calendar at events.isothermal.edu for the most current version of academic-related postings.

Administrative Directory

Administrative Offices

Please refer to the College Directory for current contact information.

OFFICE OF THE PRESIDENT	
President	Dr. Margaret Annunziata
Vice President of Student Success and Chief Academic Officer (CAO)	vacant
Vice President of Strategy and Operations	Dr. Madeline Smith
Vice President of Economic and Workforce Development	Dr. Scott Queen
Chief Development Officer	Dr. Thad Harrill
Chief Information Officer	Robby Walters
Senior Director of Institutional Effectiveness and Strategic Analytics and SACSCOC Liaison	Leeann Cline-Burris
Senior Director of Marketing and Community Relations	Mike Gavin
Executive Assistant to the President and Director of Special Events	Dee Dee Barnard
ACADEMIC DIVISIONS	
Dean of Applied Technologies	Dr. Kem Harvey
Dean of Arts and Sciences	Dr. Ashley Day
Dean of Health and Public Services	Donna Hood
STUDENT AFFAIRS	
Associate Vice President for Student Affairs	Sandra Lackner
Dean of Teaching and Learning Support	Dr. Kelly Lovelace
Enrollment Management/Admissions	Travis McDowell
Financial Aid	Reagan Bowman
Records	Rachel Mercantini
Student Activities	Laura Horbal
PATHWAY NAVIGATION	
Dean of Student Pathway Navigation	Alfreda Lindsay
Navigation for Arts and Sciences	Georgette Scruggs
Navigation for Applied Technologies	Brandon Burnett
Navigation for Health and Public Services	Melissa Tenpenny

OFFICE OF THE PRESIDENT	
Navigation for Career and College Promise	Karen Harris
Navigation for Special Credit and Health and Public Services	Tina Porter
WORKFORCE AND COMMUNITY EDUCATION	
College and Career Readiness	Amy Galla
Customized Training	Mark Franklin
Polk Campus	Karen Marshall
Small Business Center	Sarah Crank
ADMINISTRATIVE AND SUPPORT SERVICES	
Business Office	Leslie Blankenship
Campus Resource Officers	Cpl. Brian Martin Cpl. Clint Tuttle
Human Resources	Evalena Jimerson
Performing Arts Center	Laura Thomas
Library	Charles Wiggins
WNCW	Dave Kester

Administrators, Faculty, and Full-Time Staff

Administrators, Faculty, and Full-Time Staff

Abrams, Tyler A.A.S., Isothermal Community College; B.S., Northeastern University	Staff Accountant
Elizabeth Adams A.A.S., Western Piedmont Community College; B.S., Western Carolina University; M.S., East Carolina University	Instructor, Criminal Justice
Danielle Aley A.A., Isothermal Community College; B.S., Fayetteville State University	Director of Bookstore Operations
Charity Allen B.S., Western Carolina University	Manager of Employee Services
Jacob Allen A.A.S., Isothermal Community College	IT Project Coordinator
Jared Allen A.A.S., Isothermal Community College; B.S., Western Carolina University	Mechatronics/ Machining Instructor
Lisa Alley A.A.S., Isothermal Community College; B.S.N., Gardner-Webb University; M.S.N., Gardner-Webb University	Nursing Instructor
Katie Anders A.S., Isothermal Community College; B.S., University of North Carolina-Charlotte; M.S., University of North Carolina-Charlotte	Information Technology/ Cybersecurity Instructor
Martin Anderson B.A., University of Delaware	WNCW Music Director
Margaret Annunziata B.A., Bellarmine University; M.S., Auburn University; Ed.S., Wingate University; Ed.D., Wingate University	College President
Jessica Arrowood A.A.S., Isothermal Community College	Student Records Specialist
Faith Bailey B.A., University of North Carolina at Charlotte; M.A., Appalachian State University	NC Career Coach
Melanie Bailey Dip., Western Piedmont Community College; A.A.S., Catawba Valley Community College; B.A., University of North Carolina-Pembroke	Dental Assisting Instructor

Dee Dee Barnard A.A., Isothermal Community College; B.S., Gardner-Webb University	Executive Assistant to the President and Director of Special Events
Karen Barnett A.A.S., Asheville-Buncombe Technical Community College	Data Entry Specialist
Alan Beam B.S., Gardner-Webb University	Webmaster
Timothy Beam A.A.S., Isothermal Community College; B.S., Western Carolina University	Facilities Manager
Marnie Beaver A.A., Isothermal Community College	Workforce Continuing Education Program Support Specialist
Maria Bivins B.A., North Carolina State University; M.A., University of North Carolina-Charlotte	Spanish Instructor
Sonja Blanchette B.S.N., Brenau University	Nursing Instructor
Jonathan Bland B.S., B.A, Appalachian State University; M.B.A., Gardner-Webb University	Business Administration/ Economics Instructor
Leslie Blankenship A.A.S., Isothermal Community College; B.S., Gardner-Webb; M.A., Western Carolina University	Business Office Manager
Reagan Bowman A.A.S., Isothermal Community College	Director of Financial Aid
Sandy Brackett A.A.S., Isothermal Community College	Workforce Continuing Education Program Support Specialist
Sheena Brackett A.A.S., Isothermal Community College	Administrative Assistant II Nursing Program
Andrew Bradshaw B.A., Gardner-Webb University; M.A., Gardner-Webb University	College Liaison for High School Programs

Amy Bridges B. S., Gardner-Webb University; M. A., East Carolina University; M. S., University of Nebraska-Kearney	Biology Instructor
Leslie Brown A.A.S., Isothermal Community College; B.S., Gardner-Webb University	Recruiter
Clarke Burleson A.A.S., Isothermal Community College; B.S., Western Governors University	Coordinator of Technology-Enhanced Learning
Brandon Burnett A.A.S., Isothermal Community College; B.S., Western Carolina University	College Navigator
Jeremy Burris A.A., Tri-County Community College; B.S., Western Carolina University; M.A., East Carolina University	English and Humanities Instructor/Faculty Chair for Arts and Sciences
Meredith Byers B. S., Western Carolina University; M. A., East Carolina University	Health and Physical Education Instructor
Barbara Callahan A.A.S., Isothermal Community College; B.S., Gardner-Webb University	Administrative Assistant for Career and College Readiness
Katie Canipe B.A., University of North Carolina-Charlotte; M.B.A., University of North Carolina at Pembroke	Associate Registrar
Vanessa Cannon A. A.S., Cleveland Community College; B. S., University of Phoenix; M. A., North Carolina A&T State University	Instructional Designer
Hunter Cheyenne Carpenter A.A.S., Isothermal Community College	Career and College Promise Navigator
Mark Carpenter B.S., Gardner-Webb College	Systems Administrator
Richard Childress B.S., B.A., M.B.A.; Appalachian State University; M.E., Western Carolina University; Ed.S., Appalachian State University	Lead Instructor Accounting
Saundra Clay B.A., M.Ed., Meredith College	Education Instructor

Leeann Cline-Burris B.S., B.A., Western Carolina University; M.B.A., Western Carolina University	Senior Director of Institutional Effectiveness and Strategic Analytics
Michael Clough B.S., Ashland University	Director of Strategic Initiatives
Jose Collado	Maintenance Technician
Tiffany Cooper A.A.S., Western Piedmont Community College; B.S., Gardner-Webb University; M.A., Appalachian State University; Certified Professional Coder	Lead Instructor Medical Office
Marc Cosby	Maintenance Technician
Brenda Craig B.A., University of South Carolina, Columbia	WNCW Marketing Manager and Business Support Specialist
Sarah Crank A.A., Isothermal Community College; B.S., Gardner-Webb University	Small Business Center Director
Michael Crater B.S., Western Carolina University; B.S.N., University of North Carolina Greensboro	Director of Emergency Medical Science Bridge Program
Amy Curtis A.A.S., Isothermal Community College	Payroll Technician
Betsy Cuthbertson A.A.S., Isothermal Community College; B.S.N., University of North Carolina-Charlotte; M.S.N., Western Carolina University	Director of Nursing and Health Sciences
Jennifer Dale A.A.S., Isothermal Community College; B.S., University of North Carolina at Pembroke	Continuing Education Payroll, Cashier, and Program Support for Spindale and Polk
Christopher Davis	Maintenance Technician

Ashley Day B.S., University of North Carolina-Chapel Hill; M.S., University of North Carolina-Charlotte; Ed.D., Gardner-Webb University	Dean of Arts and Sciences
Roland Dierauf B.S., James Madison University; M.F.A., Virginia Commonwealth University	WNCW Producer/ Afternoon Host
Nicole Dragan B.S., M.S., Western Carolina University	Chemistry Instructor
Katie Edwards A.A.S., Isothermal Community College; B.S.N., Western Governors University; M.S.N., Western Governors University	Health Sciences Student Success Coordinator
Joel Ekstrom B.A., King College; M.A., East Tennessee State University	Institutional Research and Reporting Coordinator
Mark Ellis B.S., Western Carolina University; M.A., Appalachian State University	Lead Instructor Social Sciences
Rachel Evans M.A., Ashford University; B.A., Gardner-Webb University	Student Support Counselor and Accessibility Coordinator
Tammy Fowler A.A.S., Isothermal Community College	Administrative Assistant II Applied Technologies
Chris Francis A.A., Isothermal Community College; B.S., Appalachian State University	Criminal Justice Instructor/BLET Qualified Assistant
Mark Franklin A.A.S., Isothermal Community College; B.S., Gardner-Webb University; M.A., Liberty University	Director of Customized Training and Development
Zachary Freeman A.A.S., Isothermal Community College; B.S., Limestone College	Lead Instructor Advertising and Graphic Design
Amy Galla B.A., M.A., University of Central Florida	Director of College and Career Readiness

Mike Gavin B.A., Emory University	Senior Director of Marketing and Community Relations
Joseph Greene Diploma, Isothermal Community College	WNCW Programming Utility/ Media Sponsorship Specialist
Lori Greene B.S., Bowling Green State University	College and Career Readiness Curriculum and Programs Coordinator
Myron Greene	Class A CDL Truck Driving Coordinator
Timothy Greene B.S. University of North Carolina at Charlotte, M.S., East Carolina University	Information Technology Instructor
Peyton Greenlee A.A., Isothermal Community College	Work-Based Learning and Career Center Coordinator
Wilson Griffin A.A.S., Isothermal Community College	Cloud System Administrator
David Guffey A.A.S., Isothermal Community College; B.S., Full Sail University	Print Shop Manager
Kaylee Hampton A.A.S., Isothermal Community College	Financial Aid Counselor/VA Coordinator
Rebecca Haney A.A., Cleveland Community College; B.S., Gardner-Webb University; M.B.A., Gardner-Webb University; Management Information Systems and Health Care Management Postgraduate Certificate, Gardner-Webb University	Business Administration Instructor
Thad Harrill B.S., M.B.A., Gardner-Webb University; Ed.D., Western Carolina University	Chief Development Officer
Karen Harris A.A.S, Isothermal Community College; B.S., Gardner-Webb University; M.A., Western Carolina University	Career and College Promise Lead Navigator

Katie Harris A.S., Isothermal Community College; B.S., University of North Carolina-Charlotte; M.S., University of North Carolina-Charlotte	Information Technology/ Cybersecurity Instructor
Ruby Harris A.A.S, Isothermal Community College; B.S., Grand Canyon University	Cosmetology Instructor
Kem Harvey B.S., University of South Carolina Upstate; M.Ed., Converse College; Ph.D., Old Dominion University	Dean of Applied Technologies
St. Clair Haynes Certificate, Central Piedmont Community College	Maintenance Technician
Jennifer Henson A.A.S., Isothermal Community College	Administrative Assistant II Arts and Sciences
Kimberly Henson B.A., North Carolina State University	WNCW Membership Services Coordinator
Lisa Higgins B.S., The Pennsylvania State University; M.A., North Carolina State University	Lead Instructor Agriculture Technology
Bobbi Hodge B.S., M.S., University of North Carolina – Charlotte	Drafting Instructor/ Faculty Chair for Applied Sciences and Engineering Technology
Blakely Hollifield A.A. Isothermal Community College; B.S.B.A Western Carolina University	Marketing and Communications Coordinator
Chris Hollifield A.S., Isothermal Community College; B.S., North Carolina State University	Director of Facilities and Capital Projects
Matthew Hollifield A.A.S., Isothermal Community College; B.S., Western Carolina University	Construction Trades Training Instructor
Donna Hood B.S., M.B.A., Gardner-Webb University	Dean of Health and Public Services
Noelle Hoyle B.S., Le Moyne College; M.S., Eastern Kentucky University	Biology Instructor

Matthew Humphries B.A., Western Carolina University; M.A., University of North Carolina-Greensboro	Lead Instructor English and Communications
Teresa Ingle Certificate, Western Piedmont Community College	Dental Program Clinical Coordinator
Caitlin Ireland B.S., Davidson College; M.S., Texas A & M University	Math Instructor
Stacey Jenkins A.A.S., Asheville-Buncombe Technical Community College, B.S., East Tennessee State University	Director Dental Programs
Evalena Jimerson B.S., University of North Carolina at Greensboro; M.S., Gardner-Webb University	Director of Talent Management
Kevin Johnson A.A.S., Spartanburg Community College	Purchasing Assistant
Melissa Johnson B.A., University of North Carolina-Asheville; M.B.A., Gardner-Webb University	Lead Instructor Business Administration
Johnathan Jones B.A., Tarleton State University; M.A., Pennsylvania State University	Lead Instructor, Humanities and Fine Arts/Music Instructor
Megan Jones A.A.S., Isothermal Community College; B.S., Grand Canyon University	Director of Cosmetology
Shannon Jones A.A.S., Isothermal Community College; B.S.N., Gardner Webb University; M.S.N., Nursing Gardner-Webb University; D.N.P., Gardner-Webb University	Nursing Instructor
Spencer Jones B.A., Brevard College	WNCW Corporate Underwriting Representative
Tangie Jones A.A.S., Isothermal Community College	Data Entry Specialist
Tanya Jones A.A.S., McDowell Technical Community College	Human Resources Specialist/Campus Safety Coordinator
Megan Junge A.A.S., Isothermal Community College	Graphic Design/Print Production Associate

Joseph Kendrick B.A., University of North Carolina at Chapel Hill	WNCW Assistant Director of Radio Operations and Program Director
David Kester A.A., The Art Institute of Atlanta	WNCW Director of Radio Operations
Charles Ketterman A.A.S., Hocking College	Campus Assistant
Sarah Kilgo A.A.S., Isothermal Community College; B.S., Gardner-Webb University; M.A., Ed.S., Appalachian State University; Website Developer, Post-graduate certificate, East Carolina University	Information Technology Instructor/Faculty Chair Business Sciences
Sandra Lackner A.S., Niagara County Community College; B.A., University at Buffalo, The State University of New York; Ed.M., University at Buffalo, The State University of New York	Associate Vice President for Student Affairs
Terry Lane A.A.S., Cleveland Community College; B.A., Lenoir-Rhyne College	Server Administrator
Dawn Laughter A.S., Coastal Carolina Community College; B.A., University of North Carolina-Greensboro; M.A., Appalachian State University	Math Instructor
Cheryl Lawter A.A.S., Isothermal Community College	Student Services Generalist
Todd Lawter	Polk Campus Custodian/ Maintenance Technician
Todd Ledford A.A.S., Isothermal Community College; B.A., Limestone College	Tutoring Center Coordinator
Alfreda Lindsay B.S., Gardner-Webb University; M.S., Winston-Salem State University	Dean of Student Pathway Navigation
Michael Lipkin B.S., University of Tennessee at Knoxville; M.S., University of Tennessee at Knoxville	Physics Instructor

Kelly Lovelace B.S., Kansas State University; M.A., Gardner-Webb University; Ph.D., Capella University	Dean of Teaching and Learning Support
Tami Lovelace A.D.N., Gardner-Webb University; B.S.N, Winston-Salem State University; M.S.N, Gardner-Webb University; D.N.P., Frontier Nursing University	Nursing Instructor
Michael Lyda A.A.S., Isothermal Community College; B.S.E.T., Western Carolina University; M.C.M., Western Carolina University; Ed.S., Appalachian State University; OSHA 1910 and 1926 Authorized, NC State; MESH, NC State; NCCER; Core, Carpentry, and Electrical Instructor; CSM and LEED GA, Everblue; Forklift Instructor	Lead Instructor Building Construction Technology
Heather Maples A.A.S., Tri-County Community College	Purchaser/ Equipment Coordinator
Karen Marshall B.S., Appalachian State University	Director of Polk Campus
Cindy McAbee	Program Manager, Custodial Services
Alice McCluney B.S., University of North Carolina-Greensboro; M.A., Gardner-Webb University; Ed.D., Western Carolina University	Early Childhood Education Instructor
Marilyn McCurry A.A.S., Isothermal Community College	Accounts Payable Technician
Travis McDowell B.A., Wofford College; M.A., Liberty University	Director of Strategic Enrollment Management
Brenda McFarland A.A.S., Isothermal Community College	Administrative Assistant II Health and Public Services
Keyara McKinney B.S., North Carolina Central University; M.S., Saint Joseph's University	NC Career Coach
Regina McKinney A.A.S., Isothermal Community College	Administrative Assistant II Vice President Support
Rachel Mercantini A.A.S., Isothermal Community College	Registrar

Katlin Mitchell A.A.S., Isothermal Community College; B.S., East Carolina University; M.S., East Carolina University	Lead Instructor Information Technology
Zelda Murray A.A.S., Isothermal Community College	Cashier
Hunter Nelson Certifications: SMAW (Shielded Metal Arc Welding), GTAW (Gas Tungsten Arc Welding); OSHA 10- and 30-Hour	Welding Instructor
Julia Nelson B.S., Liberty University; M.A., Liberty University	Psychology Instructor
Meghan Nevil A.A.S., Isothermal Community College; B.A. Fayetteville State University	Institutional Data and Analytics Coordinator
Bryson Owen	Groundskeeper
Hannah Oxendine B.S., University of North Carolina at Charlotte; M.Ed., North Carolina State University	Financial Aid Counselor/Powers Promise Scholarship Coordinator
Brett Parker B.A., University of South Carolina-Spartanburg, M.A., Middle Tennessee State, Ph.D., University of Alabama	History Instructor
Adam Petit B.S., Minnesota State University-Mankato; M.S., Minnesota State University-Mankato	Math Instructor/ Faculty Chair for Arts and Sciences
Keith Poole B.S., Western Carolina University; M.Ed., Duquesne University; Ed.D., Clemson University	Public Speaking Instructor
Tina Porter A.A., Isothermal Community College; B.S., Gardner-Webb University	Lead College Navigator
Bonnie Powell A.A.S., Isothermal Community College; A.A.S., Isothermal Community College	Learning Lab Teaching Assistant
Austin Price A.A.S., Isothermal Community College	Welding Instructor
Savannah Parton B.A., Gardner-Webb University; M.S., Gardner-Webb University	Adult Student Success Coach

Dr. Scott Queen Ed.D, Wingate University; M.S., University of North Carolina at Greensboro; B.S., University of North Carolina at Greensboro; A.A.S., Alamance Community College	Vice President of Economic and Workforce Development
Beverly Raines A.A.S., Cleveland Community College	Administrative Assistant I Plant Operations and Maintenance
Jeffery Ramsey NC Law Enforcement Certification; NC Justice Academy Criminal Investigator Certificate; NC Justice Academy Tactical Training Certificate, NC Law Enforcement General Instructor	Director of Basic Law Enforcement Training/Law Enforcement Training Coordinator
Lee Roach A.A.S., Isothermal Community College; B.S., M.S., Western Carolina University; Ed.S., Northwestern State University; OSHA 1910 and 1926 Authorized, NC State; Certified FANUC Robotics Instructor; Forklift Instructor; NCCER Instructor; HAAS Turning and Milling Certification	Lead Instructor, Mechanical Engineering Technology/ Industrial Systems/ Mechatronics
Naomi Roberts B.A., University of North Carolina at Asheville; M.S., Western Carolina University	Lead Instructor, Mathematics and Engineering
Sean Rubin A.A.S., Full Sail Center for the Recording Arts	WNCW Audio Engineer
Hunter Ruppe A.S. Isothermal Community College; B.S. Full Sail University	Tier 1 IT Helpdesk Support Specialist
Joshua Schulte B.S., Denison University; M.A., Austin Peay State University; M.S., Austin Peay State University	Biology Instructor
Georgette Scruggs A.A.S., Cleveland Community College; B.S., Gardner-Webb University	College Navigator
Chameeka Smith B.S., North Carolina A&T State University; M.S., North Carolina A&T State University; M.A., North Carolina A&T State University; Ed. S. North Carolina A&T State University; Ed. D. University of North Carolina Greensboro	Director of NC Boost Program
Loreen Smith B.A., Stony Brook University; B.A. and M.Ed., Georgia State University	English and Humanities Instructor

Madeline Smith B.A., Ohio State University; M.Ed., Ohio University; Ph.D., William & Mary	Vice President of Strategy and Operations
Kimberly Snyder B.S., Gardner-Webb University; M.A., Appalachian State University; LCMHC	Human Services Technology Instructor
Karen Spratt A.A., Isothermal Community College; B.S., Western Carolina University; M.A., Appalachian State University	Lead Instructor, Development Education, and ACA/ Math Instructor
Laura Spurling A.A. Catawba Valley Community College; B.S. Appalachian State University	Dental Hygiene Program Instructor
Marshall Sybert A.A., Isothermal Community College; B.A., University of North Carolina Charlotte; M.A., Webster University	College and Career Readiness Transitions Coordinator
Starr Tate B.S., Gardner-Webb University; M.S.N., Gardner-Webb University	Nursing Instructor
Karen Taylor A.A., Isothermal Community College; B.A., Gardner-Webb University; M.A., Gardner-Webb University	English Instructor
Phillip Taylor A.A.S., Isothermal Community College	Courier/ Groundskeeper
Melissa Tenpenny A.S., Isothermal Community College	College Navigator
Laura Thomas A.A., Isothermal Community College	Performing Arts and Conference Center Operations Manager
Joy Thomson A.A.S., Isothermal Community College; NCCER Craft Instructor	Welding Instructor
Cathy Walker A.A.S., Isothermal Community College; B.S., Gardner-Webb University	WNCW Business and Traffic Specialist
David Walker A.A.S., Isothermal Community College	Print Shop Assistant

Lewis Walker A.A.S., Cape Fear Community College	Heating and Air Conditioning Technician
Robby Walters B.A., University of North Carolina-Charlotte	Chief Information Officer
Jeff Waters A.A.S., Isothermal Community College; Haas CNC Turning Center Certification, Haas Vertical Machining Center Certification, Gibbs Cam Certification, NCCER Craft Instructor	Lead Instructor Computer Integrated Machining
Bret Watson B.S., Appalachian State University; M.A., Gardner-Webb University	Lead Instructor Natural Sciences/ Biology Instructor
Cathy Webb A.A.S., Isothermal Community College	Library Specialist
Erin Whelchel B.A., University of North Carolina-Charlotte; M.A., Clemson University	English Instructor
Kristen Wick A.A.S. Asheville-Buncombe Technical Community College, A.A.S Asheville-Buncombe Technical Community College	Program Support Specialist Continuing Education/Applied Technologies
Charles P. Wiggins B.F.A., University of North Carolina-Asheville; M.F.A., East Carolina University; M.L.I.S., University of North Carolina-Greensboro	Director of Library Services
Brooke Workman B. S., Gardner-Webb University; M.B.A., Gardner-Webb University	Career and College Promise Navigator
Carolyn Young B.A., Muskingum University	Lead Instructor Audio and Video Production Technology

Maps and Facilities

Maps

Isothermal Community College provides a variety of locations to best serve our community. For current locations, please review the Isothermal Community College Locations webpage.

Facilities

Facilities

Administration Building
The Academic Development office, faculty, and classrooms are located in the Administration building, as are the Arts and Sciences office, faculty, labs, and classrooms; the Business Office; Human Resources; the Presidential Office Suite; the Marketing and Communications Office; the Public Information Office; the Tutoring Center; and the Writing Center.

Agribusiness Center
Located in the Agribusiness Center are a barn, greenhouse, and covered riding arena to support the Agribusiness and Social and Human Services programs**,** as well as community events.

Business Sciences Building
Located in the Business Sciences building are the Business Sciences office, faculty, and classrooms, Blue Room, XRAIL, Accounting and Finance, Agribusiness, Business Administration, Equine Business, Information Technology, Medical Office Administration, Accounting Lab, Computer Lab, the Teaching and Learning Center (TLC), and the temporary Library Services location.

Communications Building
Located in the Communications Building are Advertising and Graphic Design, Audio and Video Production Technology, Electrical Systems Technology, Campus Print Shop, WLOS, and WNCW.

Engineering Technology and Workforce Development Center Building (Walter Dalton Building)
Located in the Engineering Technology and Workforce Development Center building are the Applied Sciences office, classrooms, Computer Engineering Technology, Computer-Aided Drafting Technology, Electronics Engineering Technology, the Institutional Effectiveness and Strategic Analytics Office, the office of the Vice President of Economic and Workforce Development, and the office of the Vice President of Student Success and Chief Academic Officer (CAO).

The Foundation- A Center for Learning and the Arts
The ground floor includes offices, College and Career Readiness classrooms, Customized Training and Development, Continuing Education, Defensive Driving, Professional Truck Driving, Small Business Center, Workforce Development offices, and visitor information.

Located on the second and third floors of The Foundation Building, the Performing Arts and Conference Center hosts an array of events, from concerts to wedding receptions. Cultural events include a variety of performance disciplines, including dance, theatre, popular and classical music, family-friendly variety shows, plays produced specifically for young audiences, and lectures and seminars. Programming is presented by the College and by community and region-based promoters.

A listing of public events can be viewed on the facility website at www.FoundationShows.org. Special student ticket pricing is available for select events. The facility box office can be called at 828-286-9990 and is located at the second-floor entrance of the North parking lot. The conference space is used for various events, including proms, weddings, seminars, trade shows, reunions, smaller meetings, and retreats. Call the director of the Performing Arts and Conference Center at 828-395-1454 for facility rental information.

Health and Public Services Building
Health and Public Services faculty and staff offices, classrooms, Basic Law Enforcement Training (BLET), Criminal Justice, Early Childhood Education, Emergency Services, and Human Services Technology are located in the Health and Public Services building.

Information Technology Building
The IT Department, the Coordinator of Technology Enhanced Learning, and the Webmaster are located in the information technology building.

Library
Note: The college library has been temporarily relocated to room 17 of the Business Sciences Building.

The college library is located near the center of the Rutherford Campus and overlooks the lake. It provides many materials and services you may need to support your courses, as well as a quiet place to study or relax. Public computers in the lobby give access to Microsoft Office and the internet. Printing and copying services are available for a nominal fee.

Library Hours are Monday–Thursday from 7:30am - 5:30pm and Friday from 7:30am - 12:00pm. The library's webpage provides all special operating hours.

The Telephone Reference and Circulation Desk can be reached at 828-395-1307.

Lifelong Learning Center
The Arts and Sciences faculty and classrooms, and the REaCH office and faculty, are located in the Lifelong Learning Center.

Machining Building
Computer-Integrated Machining is located in the machining building.

Maintenance Building
The college vehicle reserve, shipping, and receiving are located in the Maintenance building.

Polk Campus
Polk Campus offers various non-credit courses (Continuing Education) ranging from self-enrichment courses to those that provide or improve occupational skills (i.e., volunteer firefighters, rescue personnel, massage therapy, allied health, and equine). Adult basic education, adult high school diploma, and adult equivalency programs are also available. English as a second language (ESL) classes are offered for persons whose first/primary language is not English.

Polk Campus is a vital part of the Polk County community, serving as a voting precinct, civic, governmental, and business meeting location, and event host site. Student art is perpetually displayed in the lobby while lectures of interest and concerts are routinely offered. The campus is open during regular business hours, Monday – Thursday, from 7:30am – 5:30pm and Friday 8am - 12pm. Evening and weekend operating hours are dependent on class and event schedules.

Small Business Center
Those considering a new business venture, expanding their current business, or needing help in developing a business plan may access Isothermal Community College's Small Business Center. Generally designed for

companies with fewer than 100 employees, the Small Business Center provides additional training, one-on-one confidential counseling, access to a statewide network of business experts, and the professional contacts and information that small businesses need. All services through the Small Business Center are free. Our resource center also provides the latest literature.

Student Center
The Student Center is the hub of student activity. It features a media center featuring important campus information and news. We also offer open gym time, intramurals, and access to a vending machine. Just outside the Student Center is a tennis court, pickleball courts, and a basketball court that may be used at any time outside scheduled classes. Enjoy walking the beautiful route around the lake, relaxing at the benches and picnic tables along the path, or playing the 9-hole disc golf course. Discs are available in the Student Activities Office.

Student Center hours in the fall and spring semesters are Monday – Thursday from 7:30am – 5:30pm and Friday from 8:00am - 12:00pm.

Located in the Student Center are Student Affairs, Admissions Office, The Patriot Hub, Placement and High School Equivalency Testing; Campus Bookstore, Campus Resource Office, Arts and Sciences faculty and classrooms; Cosmetology, Esthetics, Employee Fitness Center; Financial Aid Office, Gym, Pool, Physical Education, Student Activities, visitor information, Records Office, Associate Vice President for Student Affairs, Student Government Association, Workforce Innovation and Opportunity Act (WIOA), Veterans Affairs, Help Desk, Pearson Vue Test Center, REaCH classroom and lunchroom, Office of Accessibility, career and academic counseling, success coaching, College and Career Promise (CCP), and Workforce Career Coach office.

Telephones
Courtesy phones are conveniently located in the following areas: Administration: First floor; Business Sciences: Hallway; Applied Science: Lobby; and Information Technology: Hallway. A pay phone is located on the first-floor hallway of the Foundation building.

Website
The College website is located at www.isothermal.edu. The website is the online information resource for admissions procedures, calendars, College Catalog, Student Handbook, financial aid, forms, schedules, scholarships, student accounts, college supports, student activities, and much more.

Welding Technology Building
The Welding Technology building has classrooms, a computer lab, a metrology/inspection room, offices, an indoor shop, an outdoor shop, and tool storage.

White House
The Building Construction Technology program of study utilizes the White House.

SACSCOC-Approved Locations

SACSCOC-Approved Locations

Campus Locations

Location	Address	Description
Rutherford Campus (Main)	Isothermal Community College P.O. Box 804 286 ICC Loop Road Spindale, NC 28160	The Rutherford Campus is on 181 acres in Spindale and sits on an 11-acre lake. The campus provides our students with opportunities to transfer to four-year colleges, prepares them for jobs through workforce training, working with industry on customized training, and provides opportunities in adult education, continuing education, and technical education. It is the location for the REaCH Early College, the Performing Arts and Conference Center, and the public radio station WNCW.
Polk Campus	Polk Campus 1255 West Mills Street Columbus, NC 28722	The Polk Campus provides continuing education opportunities to our students in Allied Health, including Nurse Aide; College and Career Readiness; Customized Training; Massage Therapy; Occupational Extension programs for emergency services personnel; and Small Business Center services, including seminars and individual consultations.

Isothermal Online

Curriculum programs and courses are located on the Distance Learning webpage. Fit for-credit courses and degrees into your schedule. ICC offers a variety of degrees, diplomas, and certificates entirely online. Students can also blend online courses with in-person courses for greater flexibility. Online students can access the Help Desk for technology assistance. Students can also find information about the Student Bridge, a self-paced introduction to using email and online classes in Moodle.

Continuing Education courses are located on the Workforce Continuing Education webpage. Students can attend non-credit classes in the comfort and convenience of their home or office. There are 250+ classes that start every month.

High School Locations are Listed in Alphabetical Order

Location	Address	Description
Chase High School	Chase High School 1603 Chase High Road Forest City, NC 28043	In collaboration with Rutherford County Schools, Isothermal Community College offers college courses for high school students interested in technical career pathways and in earning college credit designed for transfer to a four-year institution. The College offers diplomas and certificates in Criminal Justice and Mechanical Drafting Technologies at Chase High School.

East Rutherford High School	East Rutherford High School 331 East High Road Bostic, NC 28018	In collaboration with Rutherford County Schools, Isothermal Community College offers college courses for high school students interested in technical career pathways and in earning college credit designed for transfer to a four-year institution. The College offers diplomas and certificates in Criminal Justice and Mechanical Drafting Technologies, as well as a certificate in Manicuring/Nail Technology at East Rutherford High School.
Lake Lure Classical Academy	Lake Lure Classical Academy 1058 Isoland Creek Road Lake Lure, NC 28746	In collaboration with this charter school, Isothermal Community College offers college courses for Lake Lure Classical Academy high school students interested in earning college credit designed for transfer to a four-year institution. The College offers the Associate in Arts (A.A.) at this location for Lake Lure Classical Academy students only.
Polk County Early College High School	Polk County Early College High School 1485 NC-108 Columbus, NC 28722	In collaboration with Polk County Schools, Isothermal Community College offers college courses for high school students interested in earning college credit, designed for transfer to a four-year institution. The College offers an Associate in Arts and an Associate in Science at the Polk County Early College High School.
Polk County High School	Polk County High School 1681 East NC-108 Columbus, NC 28722	In collaboration with Polk County Schools, Isothermal Community College offers college courses for high school students interested in earning college credit, designed for transfer to a four-year institution. The College offers an Associate in Arts, an Associate in Science, as well as a diploma and a certificate in Criminal Justice at Polk County High School.
RS Central High School	RS Central High School 641 US 221 Rutherfordton, NC 28139	In collaboration with Rutherford County Schools, Isothermal Community College offers college courses for students interested in technical career pathways and students interested in earning college credit designed for transfer to a four-year institution. The College offers diplomas and certificates in Criminal Justice and Mechanical Drafting Technologies at RS Central High School.
Thomas Jefferson Classical Academy	Thomas Jefferson Classical Academy 2527 Highway 221A Mooresboro, NC 28114	In collaboration with this charter school, Isothermal Community College offers college courses for Thomas Jefferson Classical Academy high school students interested in earning college credit that is transferable to a four-year institution. The College offers the Associate in Arts (A.A.) and a certificate in Agribusiness Technology, Equine Science at this location for Thomas Jefferson Classical Academy students only.

Student Support Services
All Isothermal locations have access to library resources and other academic support services, wireless internet access, and services such as admissions, advising, career counseling, accessibility support, financial aid, and more. In addition to these services, the Main Campus offers a bookstore, open computer labs, a testing center, a performing arts center, a gymnasium and pool, and student activities offices.

Orientation and College Success Courses

Orientation and College Success Courses

Orientation

As part of our efforts to provide the best opportunity for our students to start with a strong foundation, Isothermal requires students to complete an online orientation through Moodle or attend an in-person session. Orientation familiarizes students with campus procedures and resources and offers information and assistance to help them succeed in college.

Some students may be exempt from orientation, for example, those currently classified as a Career and College Promise (CCP), Early College, Career and Technical Teacher Education Program (Lateral Entry), Basic Law Enforcement Training (BLET), or Special Credit students. Students may also be exempt from participating in orientation if they graduated from an Isothermal program within the past five years before enrolling in a new program. The latter exemption does not include prior enrollment in CCP courses.

ACA College Success Courses

At Isothermal, we believe in setting our students up for success. That is why we offer a student success course, ACA 122: Transfer and Career Success. This ACA course provides an extensive orientation not only to the College but also to the first-year college experience with a focus on problem-solving, goal-setting, educational planning, and career and college exploration. It is more than just a course-it is a stepping stone to creating good habits for the future. We strongly recommend that degree-seeking students enroll in an ACA course during their first semester.

Types of Educational Programs

Types of Educational Programs

Isothermal Community College is dedicated to providing a diverse range of educational opportunities to help students achieve their academic and career goals. Whether looking to earn an adult high school diploma, pursue a certificate or diploma, obtain an associate degree, or engage in customized training and development, we offer programs tailored to meet our community's needs. We also understand that learning is a lifelong journey, which is why we also offer continuing education opportunities to support professional growth and personal enrichment.

Information about the types of educational programs offered at Isothermal Community College can be found in Academic Programs Policy 04.01.02.

Types of Educational Programs

Curriculum

Curriculum

Curriculum programs typically refer to organized sequences of courses that lead to a certificate, diploma, or associate degree. All curriculum programs are designed to provide education, training, or retraining for the workforce.

Types of Educational Programs

Career and College Promise for High School Students

Career and College Promise for High School Students

Career and College Promise (CCP) provides structured opportunities for qualified high school students to dually enroll in community college courses, tuition-free. These courses offer pathways to a certificate, diploma, degree, or state- or industry-recognized credential while also helping students develop essential entry-level job skills.

Eligible students can enroll in CCP pathways once they meet the admissions requirements for their desired pathway and have received approval from their high school principal or designee.

CCP offers three pathways designed to enhance students' post-high school success:

- College Transfer (CTP) – Students can earn tuition-free course credits toward an Associate in Arts, Associate in Science, Associate in Engineering, or Associate in Nursing degree, which will transfer seamlessly to any public or participating independent college or university in North Carolina.
- Career and Technical Education (CTE) – Students can earn tuition-free credits toward a job credential, certificate, diploma, or degree in a technical career.
- Cooperative Innovative High Schools (CIHS) – Students can begin earning tuition-free college credits by attending an approved Cooperative Innovative High School. Program acceptance is required.

  Polk County Early College (PCEC)
  PCEC is an innovative high school in partnership with Isothermal Community College, serving students from Polk County. Students enroll at PCEC at the beginning of their ninth-grade year and continue through their twelfth-grade year. While enrolled at PCEC, students take a combination of high school and college courses with the opportunity to complete a certificate, diploma, or associate degree program, or earn up to two years of college credit while completing a high school diploma.

  Rutherford Early College High School (REaCH)
  REaCH is an innovative high school located on the campus of Isothermal Community College. Students enroll at REaCH at the beginning of their ninth-grade year and continue through their twelfth-grade year.

While enrolled at REaCH, students take a combination of high school and college courses with the opportunity to complete a certificate, diploma, or associate degree program, or earn up to two years of college credit while completing a high school diploma.

For more information about Career and College Promise, please contact a Career and College Promise Navigator at ccp@isothermal.edu.

College and Career Readiness

College and Career Readiness

ADULT HIGH SCHOOL DIPLOMA

The Adult High School (AHS) program is offered cooperatively with Rutherford and Polk County public school systems to offer adults an opportunity to earn an Adult High School diploma. Course and graduation requirements are in alignment with the standards established by the State Board of Education, the local education agency, and the local community college. The AHS diploma is issued in partnership between the local boards of education and community college trustees with appropriate signatures representing both educational systems. All classes are free. For more information, review the College and Career Readiness webpage, call 828-395-1631, or visit the Foundation.

ENGLISH AS A SECOND LANGUAGE

The English as a Second Language (ESL) program helps adults whose first language is not English to improve their English speaking, reading, and writing skills. Students may also choose to prepare for the US citizenship test and/or improve computer literacy skills. Instruction is provided at beginner, intermediate, and advanced levels. All classes are free. For more information, review the English as a Second Language webpage, call 828-395-1631, or visit the Polk Campus or the first floor of the Rutherford Campus Foundation.

NORTH CAROLINA'S HIGH SCHOOL EQUIVALENCY DIPLOMA

North Carolina's High School Equivalency (HSE) Diploma program provides instruction to help learners prepare successfully for a designated high school equivalency assessment. HSE diplomas are awarded upon satisfactory completion of a series of tests in writing, reading, social studies, science, and mathematics. Spanish versions of the tests are also available.

The two nationally recognized assessments used to obtain a state-issued High School Equivalency credential in North Carolina are GED® and HiSET®. The US Department of Education recognizes both High School Equivalency assessments, and they cover the same content areas. Passing either assessment will result in the same High School Equivalency Diploma issued by the North Carolina State Board of Community Colleges. GED® and HiSET® testing is currently available.

Reasonable testing accommodations are available to examinees with documented disabilities. These accommodations are secured through the official websites of the testing companies. Students may contact the Chief Examiner at 828-395-1621 for more information. College and Career Readiness courses provide HSE practice tests, study materials, and targeted instruction. Courses are free. For more information, review the College and Career Readiness webpage, call 828-395-1631, or visit the Foundation.

Workforce Continuing Education

Workforce Continuing Education

Workforce Continuing Education's flexibility enables it to meet a wide variety of individual and group needs. Course options for adults include reading, technical skills, self-enrichment, or quality management techniques. Courses are offered on a continuing basis, while others are given in response to requests of individuals or groups. Course locations include schools, community clubs, fire stations, and industry throughout Rutherford and Polk counties and the ICC campus. Class hours, the course length, and the number of meetings per week can be arranged for the convenience of the participants.

ADMISSION AND REGISTRATION

Adults aged 18 or older are eligible to participate in Workforce Continuing Education courses. High school students from Rutherford and Polk counties, ages 16 and 17, may enroll in a course with permission from their high school.

REGISTRATION FEES

Student fees depend upon course design. Registration fees are waived for College and Career Readiness and Human Resource Development. Registration fees are waived for in-service training for law enforcement, fire, rescue, and emergency medical technicians. Workforce Continuing Education students who are incarcerated and enrolled in a designated program are fee-exempt.

WORKFORCE CONTINUING EDUCATION REFUND POLICY

1. A student who withdraws from a course prior to the first day of class, or if the course is canceled, will be eligible for a 100% refund of the registration fee.
2. After the onset of class, a student who withdraws from a course is eligible for a 75% refund if the student withdraws prior to or on the 10% point (census) of the class.
3. An option for a refund: The student may request a transfer to another Workforce Continuing Education course before 10% of the course has expired. The transfer must be within the same semester, have space available, and have the instructor's approval.
4. Exceptions to this policy can be made by the following:

    - Exceptions may be made by the vice president of economic workforce and development for courses originating in the Workforce Continuing Education Division.
    - Exceptions may be made by the Polk Campus coordinator for courses originating through the Polk Campus.

WORKFORCE CONTINUING EDUCATION COURSE REPEAT POLICY

Workforce Continuing Education students may enroll in a course as many times as necessary to accomplish their personal or educational/training goals, provided they: 1) continue to show progress, 2) do not prohibit other students from participating, 3) pay the appropriate fees, and 4) do not violate North Carolina Community College policies. Students who take the same Occupational Extension course more than twice are required to pay for the actual cost of the course or the registration fee, whichever is higher. This applies if the course is repeated within a five-year period. Courses taken for certification, licensure, or recertification are exempt from this policy.

OCCUPATIONAL EXTENSION

Occupational courses help adults build their job skills or knowledge. Classes are held on campus or in the workplace. Coursework includes but is not limited to Cardiopulmonary Resuscitation (CPR), Human Resources Development (HRD), team building, emergency medical services, law enforcement, first aid, firefighting, Leadership Rutherford, nursing assistant, truck driver training, and massage therapy.

SELF-ENRICHMENT

Self-enrichment courses help adults broaden their talents, stimulate their creativity, develop new skills, and improve their abilities. Coursework includes but is not limited to cake decorating, crafting, language and culture, creative writing, music, quilting, dance, computer skills, notary public, sign language, cooking and nutrition, painting, health and wellness, and vehicle inspection/emissions.

HUMAN RESOURCE DEVELOPMENT PROGRAM

The Human Resource Development (HRD) program helps unemployed, under-employed, and dislocated workers with foundational employability skills, soft skills, pre-job orientation, and job search skills. Students are provided instruction that addresses six core competencies:

1. Assessment of individual assets and limitations
2. Development of a positive self-concept
3. Development of employability skills
4. Development of communication skills
5. Development of problem-solving skills
6. Development of awareness of information technology in the workplace

CAREER READINESS CERTIFICATION

Career Readiness Certification can be obtained at Isothermal Community College. This national credential represents a student's abilities in what are considered foundational employability skills: reading for information, applied math, and graphic literacy.

Types of Educational Programs

Customized Training and Development

Customized Training and Development

Isothermal Community College is committed to providing businesses and industries with various educational and training services, including assisting businesses and industries in the areas below. For additional information, review the Customized Training webpage, call 828-395-1677, or visit the first floor of the Foundation.

CUSTOMIZED TRAINING PROGRAM

The Customized Training Program supports the state's economic development efforts by providing education and training opportunities for eligible businesses and industries to respond effectively to business and industry. The Customized Training Program also provides programming and training services to assist new and existing businesses and industries to remain productive, profitable, and within the state.

ELIGIBILITY

Businesses and industries eligible for support through the Customized Training Program include Manufacturing, Technology Intensive (i.e., Information Technology, Life Sciences), Regional or National Warehousing and

Distribution Centers, Customer Support Centers, Air Courier Services, National Headquarters with operations outside North Carolina, and Civil Service employees providing technical support to US military installations located in North Carolina.

PROFESSIONAL TRUCK DRIVER TRAINING
In this 378-hour day-and-evening program, students will work with the truck and participate in classroom activities. For more information, visit the Professional Truck Driving webpage or call 828-395-1576.

SMALL BUSINESS CENTER
The Small Business Center is a community-based provider of education and training, confidential counseling, information, and referrals for persons currently in business or those seeking to start a new business in Rutherford and Polk counties. The Small Business Center Network aims to increase the success rate and the number of viable small businesses in the State of North Carolina.

Performance Measures

NORTH CAROLINA COMMUNITY COLLEGE SYSTEM (NCCCS) PERFORMANCE MEASURES FOR ISOTHERMAL COMMUNITY COLLEGE

Isothermal Community College tracks student achievement through state performance measures.

The Performance Measures for Student Success Report is the North Carolina Community College System's (NCCCS) major accountability document. This annual performance report is based on data compiled from the previous year and serves to inform colleges and the public about the performance of all North Carolina community colleges. Isothermal Community College is committed to using this system to continuously monitor, evaluate, and improve the quality of programs offered in Rutherford and Polk counties.

North Carolina Community College System 2025 Performance Measures for Student Success Summary

The 2025 performance measures for student success document reports that the College was above the standard baseline level on all measures and above the state average on five. Of those, the College measured as excellent in the state for Curriculum Completion Rates.

2025 Performance Measures Report

Non-Discrimination and Disclaimer

Nondiscrimination Statement:
The College strives to make its campuses inclusive and a safe and welcoming learning environment for all members of the College community. Pursuant to multiple federal and state laws and administrative regulations and pursuant to College policy, the College prohibits discrimination in its activities, services, and programs based on race, color, national origin, religion, sex, gender identity, sexual orientation, pregnancy, disability, genetic

information, age, political affiliation, or veterans' status. For more information, contact: Charity Allen, Isothermal Community College, PO Box 804, Spindale, NC 28160, or call (828) 395-1686. Discrimination and Harassment Policy 03.03.07/05.03.04

Disclaimer:
This College Catalog is provided for information purposes and is designed only to assist prospective students in planning. It does not establish contractual relationships. Every reasonable effort is made to ensure accuracy at the time of publication; however, the College may make corrections to the contents and provisions of the College Catalog at its discretion. The College reserves the right to change course offerings, programs, policies, regulations, or requirements as needed, consistent with applicable laws, in order to fulfill its role and mission or to accommodate circumstances beyond its control. Changes to the College Catalog may be implemented without prior notice or obligation and are effective immediately unless otherwise stated.

Applied Technologies

Applied Technologies Programs

A

- Accounting and Finance
- Agribusiness Technology
- Audio and Video Production Technology

B

- Building Construction Technology
- Business Administration

C

- Computer-Aided Drafting Technology
- Computer-Integrated Machining

E

- Electrical Systems Technology
- Electronics Engineering Technology

G

- Graphic Design

I

- Industrial Systems Technology
- Information Technology

M

- Mechanical Engineering Technology
- Mechatronics Engineering Technology
- Medical Office Administration

W

- Welding Technology

Arts and Sciences Programs

Arts and Sciences Programs

A

- Associate in Arts
- Associate in Arts - Pre Dental
- Associate in Arts - Pre EMS
- Associate in Arts - Health Transfer
- Associate in Arts - Pre Nursing
- Associate in Engineering
- Associate in Science

For additional information about the transferability of course credits, please review the Comprehensive Articulation Agreement.

Health and Public Services Programs

Health and Public Services Programs

A

- Associate Degree Nursing
- Associate in Arts in Teacher Preparation (AATP)
- Associate in General Education-Nursing (eligible Career and College Promise students only)
- Associate in Science in Teacher Preparation (ASTP)

B

- Basic Law Enforcement Training

C

- Career and Technical Teacher Education - Lateral Entry
- Cosmetology
- Cosmetology Instructor
- Criminal Justice Technology

D

- Dental Assisting
- Dental Hygiene

E

- Early Childhood Administration (certificate)
- Early Childhood Education
- Emergency Medical Science
- Esthetics Technology

M

- Manicuring/Nail Technology

P

- Practical Nursing

S

- Social and Human Services

Developmental Education

Developmental Education

This college-level educational support program is designed to provide access to success for Isothermal Community College students. Support is provided through prerequisite and co-requisite developmental English and math courses, as well as academic-related courses (ACA).

Students whose placement indicates a need for prerequisite or co-requisite developmental courses, as well as students who choose to strengthen their academic foundation, may enroll in the following courses. Class formats include self-paced, lecture, web-assisted, and online instruction. In every format, instructors work closely with students to build skills, confidence, and a strong foundation for life-long learning. Courses offered are:

Prerequisite Courses

- MAT 025 Concepts of Essential Math/Statistics
- MAT 035 Concepts of Algebra

Co-requisite Courses

- ENG 045 English Skills Support
- MAT 045S Math Skills Support for Statistical Methods I
- MAT 045P Math Skills Support for Precalculus Algebra
- MAT 045M Math Skills Support for Math Measurement & Literacy
- MAT 045Q Math Skills Support for Quantitative Literacy

ACA 122: Transfer and Career Success is required for all degree-seeking students. We strongly recommend that degree-seeking students enroll in an ACA course during their first semester.

Global Distinction

Global Distinction

The Global Distinction Program at Isothermal Community College aims to equip students with the advanced skillset needed to successfully navigate the complexities of our interconnected world.

In a global society, students increasingly encounter people of differing cultures, ethnicities, language, and perspectives. The Global Distinction program focuses on discovering what it means to be a global citizen and how students can apply this knowledge to their academic, personal, and professional endeavors.

For current information on the program, visit the Global Distinction webpage.

Technical Standards

Technical Standards

Students enrolling in career and technical education programs must meet specific emotional, behavioral, physical, cognitive, and professional standards. Technical standards outline the non-academic qualifications that the college considers essential, alongside academic achievements, for the successful completion of its educational objectives. Students who require special accommodations to meet the required standards must contact the Student Support Counselor/Accessibility Coordinator in The Patriot Hub, located in room 32 of the Student Center.

Instructional Delivery Methods

Instructional Delivery Methods

Courses are offered using a variety of instructional delivery methods to best meet the needs of students. For information about courses and sections, you may log in to your Patriot Port account or communicate with your college navigator/faculty mentor or instructor.

Instructional Method	Abbreviation	Instructional Method Description
Traditional	T	The instructor and students meet face-to-face, according to designated dates, times, and location. [Note: Activities in the course may include online research components or other online resources.]
Internet or Online	R	100% of instruction is delivered through the internet. [Note: May include a required face-to-face orientation or proctored exams.]
Web-supported or Web-assisted	W	Primary instructional delivery is via traditional face-to-face method with a requirement that students have internet access as a supplemental part the course. 50% or less of the instruction is delivered through the Internet. [Example: A class that meets on a regular schedule, but students are required to access instructional material, submit assignments, and/or interact with the instructor and other students via the internet.]
Hybrid	H	Primary instructional delivery is online with a requirement that students also meet in traditional face-to-face sessions as determined appropriate by the college. More than 50% but less than 100% of the instruction is delivered through the internet. [Example: An online course with a requirement that students attend one or more face-to-face labs.]
Cooperative Education	C	Instruction consisting of the integration of traditional classroom learning with supervised work experience, and where there is no internet requirement.
Independent Study	N	Instruction undertaken with an individual student for a selected course. Instruction may be delivered through face-to-face, online, or a combination of both methodologies. [NOTE: Prior approval must be granted by the course instructor and instructional dean.]
HyFlex	F	A multi-modal instructional delivery method where the college has the option to deliver the online portion of a curriculum course synchronously, asynchronously, or both as long as 100% of the instruction is offered face-to-face with the instructor in a physical classroom. Students may choose to attend the regularly scheduled in-person session or the online option on a session-by-session basis. [Example: A class that meets on a regular schedule in a physical classroom with an instructor present for all sessions, but students have the option to attend a session in-person in the physical classroom OR to access instructional material, submit assignments, and/or interact with the instructor and other students via the internet on a session-by-session basis.]

Synchronous	S	100% of instruction is delivered through the internet. In addition to the online course content, students are required to attend virtual meetings on a fixed schedule with both students and instructor present. [*Example: An online course with a requirement that the students attend a weekly 50-minute virtual meeting that is facilitated by the course instructor.*]

Instructional Delivery Methods

Distance Learning

Distance Learning

Taking some or all courses in a distance learning format (online, web-assisted, hybrid, and hyflex) may allow students to overcome some of the obstacles that prevent them from taking a seated/traditional class. Workloads for distance learning courses are comparable to traditional courses, but the delivery method utilizes a variety of technologies in an online environment.

Students enrolling in a program that offers distance learning courses must first complete the program's admissions requirements. Once the admissions steps are complete, students can then proceed with the advising and registration process for the distance learning course. To facilitate the registration process, students should ensure that all expectations for being a successful online student at Isothermal Community College are met (Distance Education Questionnaire) and review the list of technical requirements available online on the Distance Learning webpage. These are considered the basic skills required to be successful in a distance learning course. In some courses, specific technology is required to complete the coursework. It is best for each student to contact the course instructor to identify technology needs, such as particular products and versions.

After registering for the distance learning course, the course material will be available in Moodle on the first day of the term. If course materials are unavailable on the first day of the semester, students should contact their instructor immediately (by email, by phone, in person, or by reaching out to the academic division’s administrative assistant. If there is a delay in communication from the instructor lasting more than 24 hours, contact the Help Desk at 828-395-1437, icchelpdesk@isothermal.edu, or visit room 5 of the Student Center.

Types of Distance Learning

Online courses, also referred to as Internet courses, deliver 100% of the instruction via the internet/online. Online courses may require face-to-face proctored testing, but instruction is delivered online. Some online courses require students to participate in online/virtual meetings at a specific date and time. When signing up for online courses, check with your college navigator/faculty mentor to identify the date and time for the online/virtual meetings. Online courses are convenient but not always suitable for all students or situations. If you are considering taking an online course for academic credit, the Distance Education Questionnaire will help you evaluate your suitability for online classes. You should consult your college navigator/faculty mentor or the online course instructor with this decision.

Web-assisted courses, also referred to as web-supported courses, are courses in which 50% or less of instruction is delivered when the student and the instructor are separated by distance. In a web-assisted course, students are required to meet face-to-face with the instructor (not separated by distance) at specific days and times with the course instructor in addition to completing assignments online.

Hybrid courses are courses in which more than 50% but less than 100% of instruction is delivered when the student and the instructor are separated by distance. In a hybrid course, students are required to meet face-to-face with the instructor (not separated by distance) at specific days and times with the course instructor, in addition to completing assignments online.

HyFlex courses are multi-modal instruction where content can be delivered online, in addition to 100% of the instruction is delivered face-to-face with the instructor in a physical classroom. Students may choose to attend the regularly scheduled face-to-face session or the online option on a session-by-session basis. The online content may be delivered synchronously via virtual meetings on specific days and times, asynchronously within the learning management system (LMS), or both. Students should contact the instructor for details on how the online content will be delivered.

Synchronous courses are courses in which 100% of the instruction is delivered online. In addition to the online course content, students are required to attend synchronous virtual meetings on a fixed schedule with both students and the instructor present.

In addition to distance learning courses, many traditional courses at Isothermal Community College require computer skills, Internet access, and email communication to fulfill course requirements. Some traditional courses require students to access and utilize Moodle, the LMS used by the College.

The Computer Labs webpage lists locations where Isothermal Community College offers computers with Internet access for student use. Curriculum students are issued student email addresses, Patriot Port accounts, and Moodle accounts. If you are having difficulty accessing any of these accounts, contact the Help Desk at 828-395-1437 or icchelpdesk@isothermal.edu, visit room 5 of the Student Center, or review the Help Desk webpage.

Class Hours

Class Hours

Most academic programs are offered during both day and evening hours to provide educational opportunities to the majority of the residents of Rutherford, Polk, and contiguous counties.

Day classes are normally scheduled between 8:00am and 4:45pm, Monday through Thursday, and between 8:00am and 12:00pm on Fridays. Evening classes are normally scheduled between 5:00pm and 8:00pm, Monday through Thursday.

A limited number of special classes are offered during weekend hours.

Classes are also offered online.

Auditing Courses

Auditing Courses

Any individual may audit a College course (take a course without credit) based on the following:

1. The individual pays tuition and fees. However, any person who is at least 65 years old may audit non-self-supporting basis courses without the payment of tuition, provided the individual meets the other criteria listed herein.
2. Auditing students are not required to take tests or examinations, they do not receive grades, credit, or financial aid, and cannot later change the “audit” to credit.
3. Students auditing a course may be required to meet the same course prerequisites and attendance standards as all other students in the course. Auditing a course will not meet the prerequisite of any sequential or higher-level course.
4. Auditing is subject to open seats in the course, and a student who audits a course shall not displace other students seeking to enroll in the course.
5. Students who audit a course and withdraw or are dropped from the course will be issued a “W” on their academic transcript.
6. Students who desire to audit must inform their instructor at the first class session, complete the appropriate forms, and return them to the Records Office prior to the course census date. Audits appear on the grade report as “Y”.

Please be aware that audited courses do not qualify for financial aid.

Senior Citizen Audit

Any person at least 65 years old may audit applicable courses offered at the College tuition-free as defined in 1E SBCCC 1000.2. A student shall be allowed to audit a course under the section only on a space-available basis. The individual must be at least 65 years old as of the first day of the applicable course section and must provide proof through a driver’s license, State identification card, or another government-issued document.

Students are responsible for associated enrollment and course-related fees and required course materials. For additional information, reference Auditing Courses Policy 05.02.03.

Course Substitutions

Course Substitutions

Course substitutions may be approved to fulfill graduation requirements, provided the substitution is appropriate for the student's program, and a comparable course is offered. In all cases, course substitutions must be consistent with the program requirements as outlined in the Curriculum Standards published by the North Carolina Community College System.

Each student is limited to two (2) course substitutions in a certificate or diploma program and a maximum of three (3) course substitutions in a degree program; however, in cases where courses have been discontinued, additional substitutions may be approved. All course substitutions must be approved by the appropriate instructional dean and the Student Records Office.

An approved course substitution must share at least two-thirds of the learning outcomes with the required course. The substituted course must be in the same discipline or meet similar curriculum distribution requirements defined by the program standard.

Students who are granted a substitution must still meet the required total credit hours for their program of study, the required minimum of twenty-five (25) percent of the program of study completed at Isothermal Community College, and the minimum course grade as defined in the program of study.

Dropping/Withdrawing from Courses

Dropping/Withdrawing from Courses

Students may officially withdraw from a course(s) without academic penalty and receive a grade of “W” if this withdrawal is made before the drop deadline as published in the academic calendar. Courses that meet on a non-standard schedule may have a different drop deadline than the one published.

All official withdrawals must:

1. Be made by the student (1) in person or (2) digitally signed and submitted through Isothermal Community College email to their college navigator/faculty mentor or instructional dean by the deadline published in the Academic Calendar. Courses with non-standard start and end dates may have withdrawal deadlines that differ from the published full-term deadlines. Students in these courses should consult their course syllabus or their instructor for deadline information;
2. Be recorded by the Student Records Office to be official. The form may be submitted by the student, college navigator/faculty mentor, or instructor, depending upon how the process is initiated; and
3. Receive a grade of “W” (Withdrawal). Students who stop attending the course without officially withdrawing may receive a grade of “F” (Failed). In some courses, as indicated on the course syllabus, if cumulative absences exceed 20% of the scheduled class hours, the student may receive a grade of “W#” (Administrative Withdrawal). Students should never assume that their instructor will administratively withdraw them for excessive absences. When a student is administratively withdrawn, the Records Office will send a notification to the student’s Isothermal email address. The student will be given five business days to respond via email with a request to remain in the course. When administrative withdrawals are submitted due to critical course or program requirements not being met (e.g., required clinical hours, program dismissal), an opportunity to request readmission to the course will not be available.

Students may be involuntarily withdrawn from courses for disciplinary reasons, subject to the student conduct policies.

Last dates of attendance are required for grades of “W,” “W#,” “R,” and “F” for students receiving veteran education benefits. The official withdrawal date is the last date of attendance, the last day a learning activity was submitted for a distance learning course, or the date required by the Department of Education and/or the

U.S. Department of Veterans Affairs. Students are urged to consult with Financial Aid and Veterans Affairs staff regarding the impact of course withdrawal and the last date of attendance for financial aid and veterans educational benefit eligibility.

Withdrawals after the deadline published in the Academic Calendar must be approved by the Vice President of Student Success and Chief Academic Officer (CAO) and are recorded as administrative withdrawals (reference Drop/Withdrawal Policy 05.02.02).

Dropping/Withdrawing for Active Military Service

In accordance with Title 38 of the U.S. Code, Section 3691A, when a covered member of the Armed Forces (including reserve components) receives orders "to perform a period of service" (i.e., active duty, inactive duty training, or state service), the College *may not* take the following actions when a member receives orders for a period of service:

- Assign the member a failing grade,
- Reduce the member's grade point average,
- Characterize any member's absence(s) as unexcused, or
- Assess a financial penalty on a member because of a withdrawal or leave of absence due to receiving orders for service.

Also, in accordance with Title 38 of the U.S. Code, Section 3691A, the College *must* take the following actions when a member takes a leave of absence from a course(s) due to receiving orders for a period of service:

- Assigning a grade of incomplete (or equivalent) for the course(s) during the term, and
- Providing the opportunity to complete the term after the period of service.

Course Repeat

Course Repeat

Courses with earned grades of "D" or "F" may be repeated. Courses with earned grades of "C" or better may be repeated only with special permission from the Vice President of Student Success and Chief Academic Officer (CAO), or if the academic program requires a higher grade than the one achieved for successful program completion. When a course has been repeated, the higher grade will be counted in the grade point average calculation. Courses taken as audits may be repeated for credit only. No course may be audited more than once.

Transitional courses are exempt from this policy. Students who feel they may benefit from enrolling in transitional courses (e.g., Developmental English and math courses) for which they have earned non-course credit should speak with their faculty mentor/college navigator and Financial Aid staff to determine their best enrollment options.

Students Using Financial Aid
Students who use financial aid should be aware that funding for course enrollment and course repeats may be subject to additional requirements or limitations. Students who receive financial aid and have questions about funding should meet with a Financial Aid Counselor for additional information.

Students Using Veterans Education Benefits

Courses that have been successfully completed or for which the student has received non-course credit may not be recertified for veteran education benefits if they are repeated. However, if a student fails a course or if the program requires a higher grade than the one achieved for successful program completion, that course may be repeated and recertified. Audited courses do not qualify and cannot be included in enrollment certification for veteran education benefits (reference Curriculum Courses Repeat and Substitution Policy 05.02.08).

Work-Based Learning Education and Apprenticeships

Work-Based Learning Education Courses

Work Based Learning courses are courses in which students are employed for specific periods of on- or off-campus work. This employment is related as closely as possible to each student's course of study and individual interests. The blend of classroom theory and practical on-the-job training adds a vital dimension to learning experiences. Numerous advantages accrue from the work-based learning approach to learning, such as career direction for participating students and an avenue to better relate the college to the community.

A student may participate in a course and earn credit toward degree requirements depending on their major.

In order to be eligible for the course, the student must:

1. Be enrolled in a curriculum program that includes a work-based learning course as an option or requirement.
2. Have been at Isothermal for at least one semester.
3. Have at least a 2.0 GPA.
4. Be employable.
5. Be at least 17 years of age.
6. Have met the curriculum restrictions in accordance with the NCCCS Curriculum Procedures.

Registered Apprenticeship Programs

Registered apprenticeship is a training program designed to meet the needs of an employer by providing the employee with structured on-the-job learning, related instruction, and a progressive wage scale. Apprenticeship creates a seamless career pathway, giving students an opportunity to learn skills necessary for a career with high earning potential, personal growth, and continued workplace learning after graduation. Students must possess strong academic and technical skills in order to be successful in an apprenticeship program. For additional information about apprenticeships, contact the work-based learning coordinator.

Admission and Exceptions

Admission and Exception

Except as otherwise specified within Admissions Policy 05.01.01, the College maintains an open-door admission policy to all applicants who are legal residents of the United States and who are high school graduates or are at least eighteen (18) years of age. The College also admits undocumented immigrants who meet certain conditions. Admission to certain programs may have additional specific entrance requirements. For additional information, reference:

General Admissions Procedures 05.01.01.01
Health Sciences Programs Procedure 05.01.01
Basic Law Enforcement Training Procedures 05.01.01.04

While the College maintains an open-door admission policy, there are certain instances when the College must carry out alternative decisions. For information regarding the basis for denying admission, reference Admissions Policy 05.01.01.

High School and Minor Student Enrollment Procedure

The College provides seamless opportunities for high school students to get a head start with their college education by enrolling in eligible pathways through Career and College Promise (CCP). Enrollment in identified courses is available to students enrolled in public and private schools (including home schools) through articulation agreements between the school system and the College, as approved by the North Carolina Community College System Office. For additional information, reference High School and Minor Student Enrollment Procedure 05.01.01.02.

Leon's Law
According to the Family Educational Rights and Privacy Act (FERPA), once a student enrolls in an institution of higher education, whether the student is over 18 or not, the student’s parents/guardians no longer have automatic access to the student’s education records. However, if the parents/guardians claim the student as a dependent on their federal income tax return, they may have access to the student’s Isothermal Community College educational records without the student’s prior written consent. Parent/guardians seeking to access their student's educational records may contact the Records Office for further information.

Readmission

Readmission

Isothermal Community College recognizes that certain circumstances may cause a disruption in a student’s ability to continuously work toward the completion of their program of study. Students who interrupt their enrollment at the College for three or more consecutive semesters must meet current admission requirements to be readmitted to a program of study published in the College Catalog in effect upon return.

Students seeking readmission after suspension due to academic or disciplinary reasons must follow the readmission requirements set forth in the Discipline and Appeal for Non-Academic Violations Procedure 05.03.02.02.

Readmission to selective enrollment programs of study will be made in accordance with program requirements.

While the College maintains an open-door admission policy, there are certain instances when the College must carry out alternative decisions. For information regarding the basis for denying readmission, reference Admissions Policy 05.01.01.

Readmission for Active Military Service Members and Reservists

Enrolled service members who perform service in the uniformed services, whether voluntary or involuntary, in the Armed Forces, including service as members of the National Guard or Reserve, on active duty, active duty for training, or full-time National Guard duty under Federal authority (but not State authority), for a period of more than 30 consecutive days under a call or order to active duty of more than 30 consecutive days up to five years are given the opportunity for prompt readmission into their same program of study, under the same academic status, in accordance with the Johnny Isakson and David P. Roe, M.D. Veterans Health Care and Benefits Improvement Act of 2020.

The advance notice of absence for active service must be provided by the servicemember or an appropriate officer of the Armed Forces or official of the Department of Defense orally or in writing to the Financial Aid Counselor/ VA Coordinator. The requirement for advance notice is not required if it is precluded by military necessity.

The notice of the intent to return (readmission) must be provided by the service member orally or in writing to the Financial Aid Counselor/ VA Coordinator.

The Financial Aid Counselor/ VA Coordinator will serve as the point of contact for service members and family members who may need assistance with support such as academic counseling, financial counseling, disability/ accessibility counseling, and additional resources and information regarding completing a course of education.

In accordance with Title 38 of the U.S. Code, Section 3691A, a covered member of the Armed Forces (including reserve components) who receives orders “to perform a period of service” (i.e., active duty, inactive duty training, or state service) will be provided an opportunity to complete the term after the period of service.

Residency for Tuition Purposes

Residency for Tuition Purposes

Residency status (in-state versus out-of-state) is determined by the North Carolina Residency Determination Service (RDS). This is a free service. Before applying to Isothermal Community College, applicants need to complete their residency status application. Please note that being an out-of-state student will not impact an applicant’s acceptance into a program at Isothermal Community College; it simply indicates the tuition rates that will apply.

For additional information, refer to the Tuition Residency Requirements Policy 06.01.02.

Academic Policies

Academic Policies

Students should be well-informed throughout their academic journey at Isothermal Community College. Academic policies and procedures are guiding principles to foster an environment of fairness, integrity, and academic excellence for all.

At Isothermal, we believe in providing a supportive campus community and learning environment where every student can thrive. Academic policies and procedures are designed to promote academic integrity, uphold standards of conduct, and outline procedures for success.

For more information on college policies, see the Policy Manual, which may also be available in hard copy through the Human Resource Office in the Administration Building.

Academic Policies

Student Rights and Code of Conduct

Student Rights and Code of Conduct

Isothermal Community College students are entitled to the rights afforded to them and obligations that accrue to them by virtue of membership. The college is committed to fostering a supportive environment where every student has the opportunity to thrive academically, socially, and personally.

The college's student-related policies reflect its dedication to fostering fairness, accountability, mutual respect, and a supportive college community. These policies define the rights afforded to students and outline their responsibilities in maintaining a supportive and productive learning environment. For additional information, refer to the policies and procedures below.

Overview of Student Rights Policy 05.03.01
Student Code of Conduct Policy 05.03.02
Discipline and Appeal for Academic Violations Procedure 05.03.02.01
Discipline and Appeal for Non-Academic Violations Procedure 05.03.02.02
Policy Manual

Academic Policies

Academic Conduct Policy

Academic Conduct

Academic integrity is an essential component of higher education. It is vital to understand the importance of academic integrity and adhere to academic honesty expectations. This is essential as students build trust, develop intellectual growth, and establish or grow personal and professional ethical standards.

When academic integrity standards are not upheld, sanctions may be imposed. For more information, refer to the Student Code of Conduct Policy 05.03.02 and Discipline and Appeal for Academic Violations Procedure 05.03.02.01.

Academic Policies

Copyright Infringement

Copyright Infringement

Questions about how to appropriately use and reference others' work can be challenging and confusing. Two great resources for better understanding these practices are available through the Library and the Writing Center.

Legal Protection of Copyrighted Works

United States Copyright Law (Title 17 U.S. Code) provides authors of original literary, dramatic, musical, artistic, and certain other intellectual works the ability to control how their work is used by others. Section 106 of the copyright law gives the author the exclusive right to:

- reproduce the copyrighted work,
- prepare derivative works based on the copyrighted work,
- distribute copies of the copyrighted work by sale or loan,
- perform or display the copyrighted work publicly,
- perform the copyrighted work publicly by means of a digital audio transmission.

Copyright infringement is the act of exercising, without permission or legal authority, one or more of these exclusive rights granted to the author. Under the current law, copyright protection is automatic at the moment the work is “fixed” in a “tangible medium” - no registration or copyright notice is required. The author may transfer ownership of copyright to another party, such as a publisher, or choose to grant a license (give permission) to another to exercise one or more of these rights. For more information about copyrights, see Copyright Basics or the U.S. Copyright Office’s FAQ page at www.copyright.gov/help/faq.

Summary of Civil and Criminal Penalties for Violation of Federal Copyright Laws

Copyright infringement is the act of exercising, without permission or legal authority, one or more of the exclusive rights granted to the copyright owner under section 106 of the Copyright Act (Title 17 of the United States Code). These rights include the right to reproduce or distribute copyrighted work. In the file-sharing context, downloading or uploading substantial parts of a copyrighted work without authority constitutes an infringement.

Penalties for copyright infringement include civil and criminal penalties. In general, anyone found liable for civil copyright infringement may be ordered to pay either actual damages or “statutory” damages affixed at not less than $750 and not more than $30,000 per work infringed. For “willful” infringement, a court may award up to $150,000 per work infringed. A court can, in its discretion, also assess costs and attorneys’ fees. For details, see Title 17, United States Code, Sections 504, 505. Willful copyright infringement can also result in criminal penalties, including imprisonment of up to five years and fines of up to $250,000 per offense. See 18 U.S.C. § 2319(b); § 3571(b)(3). For more information, please see the website of the U.S. Copyright Office at www.copyright.gov, especially their FAQs at www.copyright.gov/help/faq.

Legal Alternatives to Illegal Downloading

The Higher Education Opportunity Act requires all colleges and universities to offer legal alternatives to unauthorized downloading. EDUCAUSE maintains a list of Legal Sources of Online Content to fulfill this purpose at www.educause.edu/legalcontent. No endorsement or evaluation of any of the linked resources on the part of EDUCAUSE or Isothermal Community College is intended. More information on copyright is available at the Isothermal Community College Library's website, library.isothermal.edu/copyright.

Attendance

Class Attendance Policies
Regular class attendance is a student's obligation and essential to receiving maximum benefit from the educational experience. Students are expected to attend and be on time for all classes and lab, shop, and/or clinic sessions. The student is also responsible for completing all learning activities, including tests and written assignments. Outside of the reasons listed in this policy, no right or privilege exists that exempts a student from any given number of class meetings.

Instructors establish their own class attendance requirements. These attendance requirements are explained in detail at the first class meeting and include the relationship between attendance and grades. This information is also included in the course syllabus. Students who stop attending class without officially withdrawing may receive a grade of "F" at the end of the semester (reference Attendance Policy 05.02.01).

Absence for Religious Reasons
Isothermal Community College recognizes the right of students to be absent from class for religious reasons. Students may request a minimum of two excused class days per academic year for observations required by the student's faith. Requests must be submitted in accordance with Student Religious Accommodations Procedure 05.02.01.02.

Absence in Accordance with Title IX of the Education Amendments of 1972
Isothermal Community College recognizes the rights of students to be tardy or absent due to conditions covered under Title IX of the Civil Rights Act of 1964, which prohibits a school from discriminating against a student based on "student's pregnancy, childbirth, false pregnancy, termination of pregnancy, or recovery from any of these conditions" (reference34 C.F.R. § 106.40(b)(1). Requests for accommodations are the responsibility of the student and must be submitted through the College's Office of Accessibility.

Absence of Military Service
Any covered student who is in the United States Armed Forces who has received temporary or permanent reassignment as a result of military operations, or any student who is a National Guard service member placed onto State active-duty status during an academic term, shall be granted an excused absence for the period of time the student is on active duty. Requests for excused absences are the responsibility of the student and must be submitted to the Associate Vice President for Student Affairs prior to the period of the absence. The College will work with the student to determine the student's best options for course continuation or withdrawal (references 1B SBCCC 500.1, Absences of Military Service Members Procedure 05.02.01.03).

Signed into law on December 29, 2022, Public Law 117-328 adds to Title 38 of the U.S. Code a new section, section 3691A, "Withdrawal or leave of absence from certain education." In accordance with Section 3691A, any covered student who is a member of the Armed Forces (including reserve components) and who receives

orders “to perform a period of service” (i.e., active duty, inactive duty training, or state service). Specifically, 38 U.S.C. §3691A(a)(2)(B) provides that an educational institution *may not* take the following actions when a member receives orders for a period of service:

- Assigning the member a failing grade,
- Reducing the member’s grade point average,
- Characterizing any member’s absence(s) as unexcused, or
- Assessing a financial penalty on a member because of a withdrawal or leave of absence due to receiving orders for service.

Additionally, 38 U.S.C. §3691A(b) provides that an educational institution *must* take the following actions when a member withdraws due to receiving orders for a period of service:

- Refund all tuition and fees paid for the academic term to the appropriate party. Please note that Veterans Affairs' interpretation of an academic term is the term as reported to your State Approving Agency and Veterans Affairs.
- Refund payments made by the student (or on behalf of the student) to the institution for housing. Please note that in this instance, the reference to housing is not the monthly housing allowance provided by the Post 9/11 GI Bill but rather housing costs such as dorm fees.

Finally, 38 U.S.C. §3691A(c) provides that an educational institution *must* take the following actions when a member takes a leave of absence from a course(s) due to receiving orders for a period of service:

- Assigning a grade of incomplete (or equivalent) for the course(s) during the term, and
- Providing the opportunity to complete the term after the period of service.

Class Entry Prior to the Census Date

Students enrolled in any course, regardless of delivery method, must be in attendance or complete the mandatory course enrollment activity and be recorded as present at least one time on or before the census date of the course. Students who fail to attend or fail to complete the mandatory enrollment activity by the census date will be removed from the class roster and recorded as a No Show (NS). In a distance-learning educational context, documenting that a student has logged into an online course is not, by itself, sufficient to demonstrate the student's academic attendance. Students who receive financial aid should consult a financial aid counselor to determine how the NS designation affects their financial aid eligibility and obligations.

Curriculum Late Course Entry, Late Registration, and Schedule Adjustments

In support of the College’s focus on learning, the College ensures that students have an opportunity to be academically successful in each course. The faculty and academic administrators are in the best position to make decisions concerning students’ ability to complete coursework within an allotted time. Therefore, students generally will not be allowed to add/change sections after the schedule adjustments deadline listed in the Academic Calendar. In addition, a student will not be allowed to enter a course past the census date, unless there are approved extenuating circumstances. A student who has never attended by the ten percent (10%) date may petition for reinstatement in the class and earn course credit following the procedures listed in Attendance Policy 05.02.01.

Tuition, Fees, and Refunds

Curriculum Tuition Payment and Fees

Tuition payment deadlines are published on the College's website. For students who register or make schedule adjustments during the final days of registration before classes begin, payment is due the day of registration. Students registering for fall courses during the spring semester or the summer semester prior to July 1 pay tuition after July 1. Students will find a reminder sent to their Isothermal email with important information about registering for fall courses in the spring or early summer before July.

With the exception of students awaiting certification of veterans' education benefits, course registration will be canceled for non-payment of tuition. Students can pay tuition and fees online through Patriot Port or by visiting the Business Office in the Administration Building. A $10.00 fee will be charged for returned checks. For further information, visit the Payment Methods webpage, visit the Business Office in the Administration Building, or call 828-395-1298. Isothermal accepts Visa, MasterCard, and Discover.

Tuition Rates*

IN-STATE		OUT-OF-STATE	
HOUR	**RATE**	**HOUR**	**RATE**
1	$ 76.00	1	$ 268.00
2	$ 152.00	2	$ 536.00
3	$ 228.00	3	$ 804.00
4	$ 304.00	4	$ 1,072.00
5	$ 380.00	5	$ 1,340.00
6	$ 456.00	6	$ 1,608.00
7	$ 532.00	7	$ 1,876.00
8	$ 608.00	8	$ 2,144.00
9	$ 684.00	9	$ 2,412.00
10	$ 760.00	10	$ 2,680.00
11	$ 836.00	11	$ 2,948.00
12	$ 912.00	12	$ 3,216.00
13	$ 988.00	13	$ 3,484.00
14	$ 1,064.00	14	$ 3,752.00
15	$ 1,140.00	15	$ 4,020.00
16	$ 1,216.00	16	$ 4,288.00

*Fees are subject to change. The NC General Assembly sets forth tuition rates, which are the same at all community colleges in the state. The rates are subject to change effective July 1, 2025.

For additional information regarding residency determination, please refer to the Residency for Tuition Purposes section of the Admission and Exceptions page.

Activity Fee**

Curriculum Students	$51.35

Technology Fee**

Instructional	$48.00

College Access, Parking, and Security (CAPS) Fee**

Instructional	$25.00

**With the exception of students enrolled in Career and College Promise programs, all curriculum students must pay the Student Activity, Technology, and CAPS fees. The Student Activity fee is charged for fall and spring sessions only. Technology and CAPS fees are charged for fall, spring, and summer sessions. Technology fees are non-refundable. Isothermal Community College does not charge fees for verifying student identities in distance learning courses.

Other Fees

Books/Required Materials	Approximately $700.00 (full-time student for one semester)
Associate Degree Nursing Testing/Uniforms/Additional Costs***	Approximately $3085.00
Associate Degree/Practical Nursing Immunization Tracking***	$15.00 - $60.00 per year
Dental Assisting Uniforms/Additional Costs***	Approximately $1,530.00
Practical Nursing Testing/Uniforms/Additional Costs***	Approximately $2460.00
Human Health Service - Pet Partners Fees***	$80.00
OSHA Card	$10.00
Returned Check	$10.00
Graduation Regalia	Approximately $30.00

***Fees are non-refundable if the student withdraws or is removed from the program.

LAW ENFORCEMENT OFFICERS AND FAMILY OF CORRECTIONAL OFFICERS

Eligible law enforcement officers who work for campus police agencies of private institutions and family members of correctional officers killed or permanently and totally disabled as a result of a traumatic injury sustained in the line of duty may be eligible for tuition-free enrollment. Additional information is available through the Records Office.

SENIOR CITIZENS

Any person at least 65 years old may audit courses tuition-free, as specified in the Auditing Courses section of this catalog. Local fees are the student's responsibility.

NET PRICE CALCULATOR

To access the Department of Education’s net price calculator, visit the Net Price Calculator webpage.

Tuition Refunds

Tuition Refunds

Isothermal Community College makes determinations regarding the refund of tuition and fees consistent with North Carolina State Board of Community Colleges policies (1E SBCC, subsection 900). Current tuition refund procedures are included in the College Catalog.

Student Activity Fee Refunds
Students who withdraw from courses prior to the term (semester) census date (10% point) may be eligible for a partial refund. Students who withdraw after the term (semester) census date (10% point) will not receive a refund of applicable student activity fees.

Additional Student Fee Refunds
Additional student fees may or may not be refundable. Current student fee information is included in the College Catalog and Student Handbook and/or applicable academic program handbooks/documents.

PROCEDURES
Students may find relevant information through Tuition/Fee Refunds Policy 06.01.04.

MILITARY TUITION REFUND PROCEDURES
Upon request from the student, the college shall:

(1) Grant a full refund of tuition and registration fees to military reserve and National Guard personnel called to active duty or active duty personnel who have received temporary or permanent reassignments as a result of military operations then taking place outside the state of North Carolina that make it impossible for them to complete their course requirements; and

(2) Buy back textbooks through the college’s bookstore operations to the extent allowable under the college’s buy-back procedures.

(a) Colleges shall use distance learning technologies and other educational methodologies to the extent possible, as determined by the college, to help active-duty military students, under the guidance of faculty and administrative staff, complete their course requirements (reference IE SBCCC 900.4 and 1B SBCCC 500.1).

Signed into law on December 29, 2022, Public Law 117-328 added to Title 38 of the U.S. Code a new section, section 3691A, “Withdrawal or leave of absence from certain education.” In accordance with Section 3691A, any covered student who is a member of the Armed Forces (including reserve components) and who receives orders

“to perform a period of service” (i.e., active duty, inactive duty training, or state service). When a covered member withdraws due to receiving orders for a period of service, the College shall refund all tuition and fees paid for the academic term to the appropriate party. Please note that Veterans Affairs' interpretation of an academic term is the term as reported to your State Approving Agency and Veterans Affairs.

RESIDENCY FOR TUITION PURPOSES REFUND PROCEDURES
Upon request from the student, the college shall provide a 100% refund if all of the following conditions apply:

(1) At the time of the student’s registration, the State Education Assistance Authority made an initial determination that the student was a resident for tuition purposes, as defined in G.S. 116-143.1(a).

(2) After validation of the information provided in the student’s residency application, the State Education Assistance Authority subsequently determines that the student was a nonresident for tuition purposes, as defined in G.S. 116-143.1(a).

(3) The student officially withdraws from the course section within 10 calendar days of the college notifying the student of the change in residency status.

If the State Education Assistance Authority makes a final validation determination that a student is a nonresident for tuition purposes, as defined in G.S. 116-143.1(a), after the 10% point of the course section or academic term, as determined by local college policy and noted on the college calendar, the college shall apply the nonresident tuition determination to the following term (reference 1E SBCCC 900.1)

Records-Related Information

Isothermal’s Records Office oversees a wide range of functions, as well as the implementation of many policies and procedures necessary to move students from enrollment to completion. The Records Office also provides training and guidance for employees who are involved in the administration of these policies and procedures.

The College has the responsibility of maintaining student records in compliance with all legal requirements and college policies, including the Family Educational Rights and Privacy Act of 1974 as amended.

Records-Related Information

Academic Load

Academic Load

The maximum academic course load is 10 credit hours for terms scheduled eight weeks or less and 21 credit hours for 16-week terms. Approval from the appropriate instructional dean is required to register for more than the maximum academic course load.

Records-Related Information

Registration Clearance

Registration Clearance

Students are responsible for obtaining registration clearance for unpaid fines or loans prior to registration. Students with other registration holds must also have clearance before being able to register for courses.

Records-Related Information

Student Classification

Student Classification

Freshmen have earned fewer than 30 credit hours. Sophomores have earned 30 credit hours or more. Full-time students are enrolled for 12 or more credit hours per semester. Part-time students are enrolled for fewer than 12 credit hours per semester.

Records-Related Information

Student Privacy and FERPA

Student Privacy

Isothermal Community College, in the execution of its responsibilities to students, must maintain accurate and confidential student records. The College maintains these records in compliance with all legal requirements and college policies, including the Family Educational Rights and Privacy Act of 1974 (FERPA) as amended (reference Student Records - FERPA Policy 05.04.03).

The College may release Directory Information without student consent. The College designates the following information as Directory Information:

- Student's name;
- Address;
- Telephone number;
- Email address;
- Academic program;
- Participation in officially recognized activities and sports;
- Dates of attendance, grade level and enrollment status; and
- Degrees, honors and awards received.

The College shall only release directory information to individuals and organizations that demonstrate, in the College’s opinion, a legitimate, educational interest in the information or provide a direct service to the College; however, the College shall release directory information to military recruiters in compliance with the Solomon Amendment unless the student specifically restricts the release of their Directory Information.

Students who do not wish to have their Directory Information released to the individuals and organizations identified above shall comply with the “opt out” provisions designated in the annual notice.

Records-Related Information

Transcript of Record

TRANSCRIPT OF RECORD

The transcript is a statement of the official academic record of the student while attending college. The College will only release an official transcript after all required obligations due to the College have been cleared. Students may access unofficial transcripts through Patriot Port.

Accessing an Official Transcript
Printed and secure electronic official transcripts are available to current and former students. For the most current information on accessing official transcripts, refer to the Ordering Your Curriculum Transcript webpage.

Accessing an Unofficial Transcript
Unofficial transcripts are available to view and print in Patriot Port for students who have attended in the previous three semesters. After logging in, click “Students,” then “Transcript” under Academic Profile.

Records-Related Information

Mandatory Course Enrollment Activity (MCEA) and Census Rosters

Mandatory Course Enrollment Activity and Census Rosters

Census rosters are available on the online attendance-taking platform. Instructors must verify enrollment, attendance dates, beginning and ending dates, and hours and times the class meets. Students who have not attended or completed the mandatory course enrollment activity (MCEA) by the course’s census date (10% point of the course) are listed as a “No Show” and must be indicated as such on the roster.

Audits and credit by exam grades are also included on these rosters. Instructors who teach online, hybrid, synchronous, or web-assisted courses must submit the graded MCEA and complete online attendance with the census roster. Completed census rosters are verified by the instructor and the Records Office using the student management system (Colleague).

Placement Assessment and Testing Services

Placement Assessment and Testing Services

Testing services are conveniently housed within The Patriot Hub in room 30 of the Student Center.

Testing services encompass a range of assessments tailored to meet various needs. From high school credentialing tests to specialized assessments such as CASAS for basic law enforcement entry and TEAS for aspiring health sciences program candidates.

Placement assessments gauge proficiency levels in writing, reading, and fundamental mathematics. While these assessments offer valuable insights for initial course placement, they are not mandatory for college admission.

Additionally, the College provides proctoring services for students enrolled in courses at other collegiate institutions. Please note that a nominal fee of $20 applies for intercollegiate proctoring services.

Awarding of Credit

AWARDING OF CREDIT

Transfer of credit for educational work taken at an institutionally accredited institution, as recognized by the US Department of Education, may be accepted. Previous coursework must be submitted on an official transcript. Credit will normally be allowed for applicable courses in which a grade of “C” or higher has been earned. Coursework is evaluated according to your selected program. Time and program selection may be factors in determining credit. Some technical credits older than five years may be subject to review by the Records Office and the appropriate faculty/instructional dean. Courses under the five-year limitation are determined and reviewed by instructional deans, and a list is maintained in the Records Office. Students may be requested to provide prior course descriptions and/or documentation demonstrating required knowledge before credits are accepted.

Students seeking transfer credit from international institutions must provide transcripts translated into English at the student’s expense by an NACES-approved agency, such as World Evaluation Services (WES) or Global Credential Evaluators (GCE).

In the event that the student disagrees with the results of the transfer credit evaluation, they may appeal to the Registrar's Office. When there is doubt about the appropriateness of transfer credit or when a student wishes to appeal a transfer credit decision, the transcript will be referred to the appropriate faculty member(s) and the dean. Time limits may be imposed in certain situations. The Records Office and the appropriate dean will maintain a list of courses that have time limits for transfer.

The maximum amount of credit allowed to be transferred is seventy five perfect (75%) of the College's curriculum (see Graduation Requirements). Any course taken at a North Carolina Community College System institution will be accepted for the equivalent course, except as specified herein. All transfer students will enter the College in good academic standing. Once enrolled, academic standing will be determined by grades on coursework taken solely at Isothermal Community College (reference Acceptance of Transfer Students/Credits 05.01.02).

Transfer of Credit within the Institution

Students transferring from one curriculum to another within the College may be handled in the same manner as transfer credits from another institution. Courses designed for satisfaction of North Carolina Community College System approved college transfer degree requirements may be accepted in Associate of Applied Science degree programs; however, courses designed for career preparation in Associate of Applied Science degrees, diplomas, and certificates may not apply to the above-referenced college transfer degree programs. Cumulative grade point averages (GPA) are normally continued when changing programs. The GPA for graduation is based only on the courses required in the program.

Credit by Examination

Any student at Isothermal Community College may receive course credit by examination through one of the following five methods: 1) Challenge Exam, 2) CLEP Exam, 3) Advanced Placement Exams, 4) North Carolina High School to Community College Articulation Agreement, or 5) Diagnostic Exam in Academic Development courses.

Challenge Exam

Students may request permission through the appropriate instructional dean to challenge a course through a comprehensive exam for credit. Please note that courses taken using challenge exams do not qualify for financial aid and may not be transferable to other institutions. The procedure for challenging is as follows:

1. The student must receive permission from the dean to challenge the course and pay a proctoring fee of $20 prior to attempting the exam. The fee is for the administration and transcription of credit if the challenge is successful. The fee is not refundable if the challenge is unsuccessful.
2. A student cannot challenge a course that they have previously enrolled in, for credit or audit, or that they have previously attempted to challenge.
3. Career and College Promise (CCP) students, as defined in 1D SBCCC 400.11, may participate in challenge/proficiency examinations to earn college credit but may not earn dual high school credit. To earn dual credit, students must enroll and successfully complete the college course.
4. Federal Pell Grant funds cannot be used to pay for challenge exams/proficiency exams, nor do credits earned through challenge examinations count toward a student's load for federal aid award calculations.
5. Credits earned through challenge examination do not count toward a student's load for Veterans Affairs (VA) educational benefits calculations, and as such, VA students should consult with Isothermal's VA counselor before attempting any challenge exams.
6. Challenge Exams/Proficiency are not calculated into a student's cumulative grade point average.
7. If the challenge exam is passed, the student's grade must be submitted to the Student Records Office by the faculty chair or instructional dean of the division in which the course resides within two weeks of the exam's completion. The Student Records Office will record the appropriate course credit on the student's transcript, and the grade for the corresponding course will be recorded as a "CE". (Note: "CE" grades are not acceptable for the Comprehensive Articulation Agreement between the North Carolina Community College System and the University of North Carolina System.)

Advanced Placement (AP) and College Level Examination Program (CLEP)

College credit may be awarded if appropriate conditions are met by Advanced Placement (AP) or College Level Examination Program (CLEP) test scores. Isothermal Community College academic credit will be granted to enrolled students who receive scores of 3 or higher on the AP tests offered by the College Board. CLEP is granted for scores in the 50th percentile or higher. Credit may be considered only for those courses that are in the student's academic program. AP and CLEP credit accepted at other post-secondary institutions is not automatically transferred to Isothermal Community College; however, it is reviewed upon receipt of official scores.

North Carolina High School to Community College Articulation Agreement

North Carolina high school graduates may be awarded college credit for certain high school courses when transferring to Isothermal Community College. Criteria are controlled by the Department of Public Instruction and the NC Community College System and are subject to change without notice. The following criteria must be met to receive credit:

1. Grade of "B" or higher in the high school course,
2. A score of 90 or higher on the CTE post-assessment,
3. In order to receive articulated credit, students must enroll at Isothermal within two years of their high school graduation date, and
4. Apply to Isothermal Community College in a related major.

Credit for Prior Learning

The College may award Credit for Prior Learning ("CPL") as designated by law and state regulations for the following prior learning methods:

1. Apprenticeship
2. State or Industry Recognized Credentials/Continuing Education to Curriculum Credit
3. Courses listed in high school to community college articulation agreements
4. Military education and training
5. Standardized examinations
6. Challenge exams/Proficiency
7. Portfolio assessment
8. Public Safety Training ("PST") prefix courses

The College may award curriculum CPL when documentation of prior learning meets or exceeds the College's standards for demonstrating learning outcomes for the corresponding curriculum course. The College shall award CPL in a manner consistent with State Board regulations.

To be eligible to receive CPL, students must 1) meet all admission requirements for their program of study; 2) be enrolled in a curriculum program to which the credit will directly apply; and 3) request a prior learning assessment consistent with Procedure 05.02.09.01. For additional information, refer to the Credit for Prior Learning Policy 05.02.09.

Other Credit

Credit may also be given in the occupational areas for non-collegiate and military educational experiences. Time and program selection may be factors in determining credit.

Change of Program of Study

Change of Program of Study

To change or update a program of study, students meet with their college navigator/faculty mentor. Program changes are made in consultation with the college navigator/faculty mentor and Financial Aid counselor (when applicable). Program changes must be recorded in the Admissions Office.

Program Update Forms received by Admissions after the full-semester census date will generally be processed for the following semester. The exception to this is when a Program Update Form is submitted for a student who begins the semester after the full-semester census date. In this instance, the form must be submitted to the Admissions Office by that term's census date. Changing a program of study will update the catalog of record to the current catalog year.

Students are responsible for monitoring progress in their program of study and ensuring that they enroll in courses within their program for the correct catalog year. Financial aid amounts dispersed to students are subject to reduction for any courses not required for their program. Students are encouraged to seek assistance from their college navigator/faculty mentor and utilize the Program Evaluation function in Patriot Port to clarify program requirements.

Requests for Multiple Programs of Study

When deemed beneficial to attaining a student's academic goals, and in accordance with the North Carolina State Board of Community Colleges Code, the Associate Vice President for Student Affairs or designee may approve students to enroll in multiple academic programs concurrently. This decision is made on an individual basis in consultation with the respective instructional dean(s) or designee and applicable Student Affairs staff.

Grading System and GPA Calculations

Grading System

Instructors are responsible for establishing their own grading policy in accordance with the College's letter grade system with qualitative descriptions.

Grade	Significance	Grade Value
A	Excellence	4.0
B	Above Average	3.0
C	Average	2.0
D	Below Average	1.0
EI	Emergency Incomplete	
EW	Emergency Withdrawal	
F	Failed	0.0
I	Incomplete	
IE	Incomplete Emergency	
W	Withdrawal	
WE	Withdrawal Emergency	
R*	Repeat	
Y	No-Credit Audit	
CE	Credit by Exam	
CR	Transfer Credit	
DE	Credit by Diagnostic Exam	
*	Developmental Credit	
%	Granted an Academic Fresh Start	
W#	Administrative Withdrawal	
^	ENG/MAT Corequisite Passed	
P	Progressing	
P*	Passing- Developmental	
P1	ENG/MAT Transition Tier 1 Passed	
P2	ENG/MAT Transition Tier 2 Passed	
P3	MAT Transition Tier 3 Passed	

Note: Grades of WE/IE are provided in response to the COVID-19 pandemic. EI/EW are provided in response to Hurricane Helene.

An asterisk (*) beside a letter grade indicates developmental coursework. Institutional credit only.

A percent sign (%) beside a letter grade indicates the student was granted an academic fresh start and does not count in GPA calculations.

A number sign (#) beside a “W” grade indicates the student was administratively withdrawn and does not count in the GPA calculation.

A circumflex accent (^) beside a letter grade indicates ENG/MAT Support Corequisite passed.

An overall “C” average is required for graduation. A “C” average on a 4.00 Quality Point Scale is a 2.00 Quality Point Average.

The North Carolina Community College System converted from the Quarter System to the Semester System in 1997.

Calculating Grade Point Average (GPA)

To compute your cumulative average, multiply credit hours by grade value to calculate the total grade points for each course. Divide the total grade points for all courses by the total number of enrolled credit hours.

Grade Point Average Example:

Course	Credit Hours		Grade		Grade Points
English	3	x	C (2)	=	6
History	3	x	B (3)	=	9
Biology	4	x	A (4)	=	16
Math	4	x	D (1)	=	4
Spanish	3	x	A (4)	=	12
Physical Education	2	x	F (0)	=	0
Total	**19**				**47**

The grade point average for the semester is 47 ÷ 19, equating to 2.47.

Credit Hour Determination and Definition

Credit Hour Determination and Definition

Isothermal Community College makes determinations regarding credit hours and credit awarded consistent with the North Carolina State Board of Community Colleges policy 1G SBCCC 100.1. Course descriptions and credit hours, lab hours, clinical hours, and contact hours are scheduled for course delivery consistent with the North Carolina Community College System Combined Course Library. Credit hours awarded for each course and hours required for program completion are described in the College Catalog.

Grading System and GPA Calculations

Academic Fresh Start

Academic Fresh Start

Any Isothermal Community College student who has experienced a lapse in enrollment at the College for a period of at least three consecutive academic years may petition in writing to have grades that are older than three years and a final grade below “C” disregarded when calculating the grade point average (GPA). Following re-enrollment, the student must complete at least twelve semester hours with a minimum GPA of 2.0 prior to requesting an academic fresh start.

In some instances, students who change academic programs and complete two academic semesters with at least twelve semester hours and a 2.0 GPA in the new academic program may petition for an academic fresh start even if there has not been a lapse in enrollment.

Students who would like to request a fresh start need to complete an Academic Fresh Start application that is available in the Student Affairs office, located in room 7 of the Student Center, or on the Records Office webpage. Students may be granted an academic fresh start only once. An academic review committee will consider the request and determine eligibility for grade forgiveness. If the request is approved, the record of earlier coursework will remain on the student's transcript; however, these grades will be removed from the GPA calculation.

Students planning to transfer to another college should contact the institution to determine the impact of Academic Fresh Start on transfer. Fresh Start GPA calculations are not used in determining eligibility for student financial aid.

Grading System and GPA Calculations

Grade Appeals, Changes, and Reports

Grade Appeals

After conferring with the instructor concerned, students may present a grade appeal in writing. For information regarding the grade appeal process, refer to Grade Appeal Policy 05.02.05.

Instructors hold full responsibility and authority for assigning grades. Once a grade has been assigned, it may not be changed by the instructor without the approval of the Vice President of Student Success and Chief Academic Officer (CAO).

Grade Reports

Final grade reports will be available online through Patriot Port upon completion of each semester.

Grading System and GPA Calculations

Course Repeat

Course Repeat

Courses with earned grades of “D” or “F” may be repeated. Courses with an earned grade of “C” or higher may be repeated only with special permission from the Vice President of Student Success and Chief Academic Officer (CAO) or if the academic program requires a higher grade than the one achieved for successful program completion. When a course has been repeated, the highest earned grade will be computed in the grade point average. Courses taken as audits may be repeated for credit only. No course may be audited more than once.

Transitional courses are exempt from this policy. Students who feel they may benefit from enrolling in transitional courses (e.g., Developmental English and math courses) for which they have earned non-course credit should speak with their college navigator/faculty mentor and Student Affairs staff to determine their best options for enrollment.

Students Using Financial Aid
Students using various forms of financial aid may have additional considerations associated with funding course enrollment and course repeat options. Students who receive financial aid and have questions about funding should meet with a Financial Aid Counselor for additional information. The Financial Aid staff can be contacted by email at financialaid@isothermal.edu, by phone at 828-395-4198, or by visiting Student Affairs in room 7 of the Student Center.

Students Using Veterans Education Benefits
It is Isothermal Community College’s commitment to assist students who may be eligible for veterans educational benefits. There are some things to be mindful of; for example, courses that have been successfully completed or for which the student has received non-course credit may not be recertified for veteran education benefits if they are repeated. However, if a student fails a course or if the program requires a higher grade than the one achieved for successful program completion, that course may be repeated and recertified. Audited courses do not qualify and cannot be included in enrollment certification for veteran education benefits.

Grading System and GPA Calculations

Incomplete Grades

Incomplete Grades

A grade of “I” is assigned when coursework is incomplete. Unless the instructor has established an earlier timeline for completion, this grade must be removed by completing the course before the end of the following semester, or the grade automatically becomes an “F” on the permanent record. Students enrolled in a course with a prerequisite for which they have received an incomplete grade must complete the prerequisite course by the census date of that course's term. Failure to do so will result in administrative withdrawal from the course, a reduced enrollment status, and ineligibility for a tuition refund.

Academic Standing and Probation

ACADEMIC STANDING AND APPEALS

Isothermal Community College is committed to helping each student succeed throughout their academic experience by providing clear expectations and support to help them achieve their goals. When a student seeks to appeal a final grade, they must follow the Grade Appeal Policy 05.02.05 and procedures.

Academic Standing

Guidelines may vary by program (e.g., Career and College Promise, Basic Law Enforcement Training (BLET), and health sciences). Information regarding academic standing guidelines by program is available in specific department areas.

Please note that overall academic standing may differ from academic standing for financial aid purposes. Students should contact the Financial Aid Office for information regarding their financial aid status and Satisfactory Academic Progress.

Probation for Unsatisfactory Academic Progress

Occasionally, students need help maintaining satisfactory academic standing at the college. They will work with their faculty mentor/college navigator to create a plan of success. For additional information, reference Probation Policy 05.02.06.

Academic Fresh Start

Any Isothermal Community College student who has experienced a lapse in enrollment at the college for a period of at least three consecutive academic years may petition in writing to have grades older than three years old and below “C” disregarded in calculating the GPA. For additional information, students may visit the Academic Fresh Start webpage, visit The Patriot Hub in room 32 of the Student Center, or complete the Academic Fresh Start application.

Honors and Awards

Honors and Awards

Honors and awards are recognized in the following ways:

President's List

The President's List recognizes students who earn a grade point average of 4.0 for the semester.

Dean’s List

The Dean’s List recognizes all students who earn a grade point average of 3.5 -3.999 for the semester.

A/B Honor Roll

The A/B Honor Roll honors students who earn a grade of B or higher in every course taken during the given semester.

Student of the Semester and Awards Day Ceremonies

Students are formally recognized each year for their excellence in scholarship, leadership, citizenship, and service. The Learning College of the Semester Awards ceremony is held near the end of the fall semester, and the Awards Day ceremony is held near the end of the spring semester.

During Commencement ceremonies, various honors and distinctions are acknowledged, with some recorded on transcripts. These recognitions may include, but are not limited to:

- Global Distinction
- Graduation Marshals
- Graduation with Honors
- Graduation with High Honors

For additional information, please view the Graduation and Commencement page.

Graduation and Commencement

GRADUATION AND COMMENCEMENT

Commencement exercises to award degrees, diplomas, and certificates to students in respective programs are held after the spring semester. Students who seek to graduate must submit a Graduation Application through Patriot Port.

Graduation Requirements
To qualify for a degree, diploma, or certificate in a program of study, students must:

1. Complete all of the courses as outlined in the official Curriculum Standards,
2. Earn the minimum required total semester hours,
3. Maintain a grade point average of 2.0 or better in the program of study. Some programs also require a grade of “C” or better on required courses; all nursing programs require a grade of “B” or better, and
4. Submit a graduation application.

Students may earn a certificate, diploma, or degree from Isothermal Community College in accordance with the requirements stated in the College Catalog in effect when they enroll in the Isothermal program of study.

Students are responsible for monitoring progress in their program of study and ensuring they enroll in courses within their program for the correct college catalog year. For students transferring to Isothermal Community College, the maximum amount of credit allowed to be transferred is seventy-five percent (75%) of the College’s curriculum (reference Acceptance of Transfer Student/Credit Policy 05.01.02).

Note: In accordance with the North Carolina Community College Reverse Transfer initiative and college practices that support students through workforce credentialing, Isothermal Community College may identify and award credentials to students who have met requirements 1-3 for credentials, including, and in addition to, their active program of study.

Commencement (Graduation) Ceremony
Those eligible for a certificate, diploma, or degree are encouraged to participate in the Commencement ceremony as a public celebration of their commitment, determination, and accomplishments. Relevant Commencement details are available on theCommencement webpage. The specific date of the Commencement ceremony is listed on the College Calendar. All students who have completed credential requirements after the previous Commencement are invited to participate.

Graduation Orders for Regalia

Graduation Orders for Regalia

To keep access to education affordable, Isothermal Community College does not charge a fee to process graduation applications or to mail the first copy of the credential certificate. Graduation applicants will be notified by mail and/or email with information for ordering caps, gowns, diploma covers, and additional items. Orders are placed in the College Bookstore.

See theCommencement webpage for additional details.

Graduation and Commencement

Graduation Honors and Distinctions

Honors and Distinctions

Honors and awards are recognized in the following ways:

Global Distinction
Students can earn a “Graduated with Global Distinction” notation on their transcript by completing 15+ credit hours of globally intensive courses, participating in eight international activities and dialogues, gaining 30 hours of global experience through study abroad or domestic intercultural experiences, and completing a capstone presentation related to their two-year global learning experience.

Graduation Marshals
Three students and one alternate may be selected to represent each academic division as graduation marshals. To be eligible for selection, students must be enrolled in a degree program, registered for six or more credits during the spring semester, have a cumulative grade point average of 3.0 or higher, have completed 30 or more credits, and be in good standing with the College. Graduating students are not eligible as they are encouraged to participate in the Commencement ceremony. Instructional deans, in consultation with the division's faculty, will select graduation marshals from their respective divisions.

Graduation with Honors
Students will graduate with Honors upon completing a certificate, diploma, or degree program with a grade point average of 3.50 to 3.99 in their program of study.

Graduation with High Honors
Students will graduate with High Honors upon completing a certificate, diploma, or degree program with a grade point average of 4.0 in their program of study.

Robert Wendell Eaves Distinguished Teaching Award
Annually, students, employees, and community members are provided the opportunity to nominate an outstanding instructor for the Robert Wendell Eaves Distinguished Teaching Award. Each year, recognition and a monetary award are presented to the selected instructor. The recipient is announced during the Awards Ceremony at the end of the spring semester. To be eligible, the instructor must be a full-time employee of

Isothermal Community College and must spend at least 25% of their employment in a teaching role. Nomination forms are made available at the beginning of each spring semester. They can be obtained on the College website or by using the weblink provided by the Director of Marketing and Community Relations.

Additional Honors and Awards
Additional honors and awards are recognized throughout the academic year. For additional information, please view the Honors and Awards page.

Accounting and Finance Program Area

Curriculum Description

The Accounting and Finance curriculum is designed to provide students with the knowledge and skills necessary for employment and growth in the accounting and finance profession. Accountants and finance professionals assemble and analyze, process, and communicate essential information about financial operations.

Coursework may include accounting, finance, ethics, business law, computer applications, financial planning, insurance, marketing, real estate, selling, and taxation. Related skills are developed through the study of communications, computer applications, financial analysis, critical thinking skills, and ethics.

Graduates should qualify for entry-level accounting and finance positions in many types of organizations, including accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, and governmental agencies.

Programs

A25800 - Accounting and Finance
C25800 - Accounting and Finance (cert)
D25800 - Accounting and Finance (Diploma)

Courses

ACC120 - Principles of Financial Accounting
ACC121 - Principles of Managerial Accounting
ACC122 - Principles of Financial Accounting II
ACC129 - Individual Income Taxes
ACC140 - Payroll Accounting
ACC150 - Accounting Software Applications
ACC180 - Practices in Bookkeeping
ACC220 - Intermediate Accounting I
ACC227 - Practices in Accounting

Agribusiness Technology Program Area

Curriculum Description

These curriculums are designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community-based small farm or agricultural business. The objective is the development of a workforce knowledgeable in sustainable agriculture practices.

Students will learn the fundamentals of agriculture, focusing on crop production and business. Emphasis is placed on entrepreneurial and field training. Students will also learn the basic principles of our economic system and government policies and programs relating to agriculture.

Graduates should qualify for a variety of jobs in agricultural businesses such as equipment, feed, and agricultural supply sales; store management; farm operations; wholesale and retail produce management; nursery operations; and environmental and agricultural education.

Programs

A15100 - Agribusiness Technology
A15100B - Agribusiness Technology - General Business
A15100H - Agribusiness Technology - Horticulture
C1510002 - Agribusiness Technology - General Business (certificate)
C1510004 - Agribusiness Technology Horticulture (Certificate)
C1510005 - Agribusiness Technology (certificate)
C151005P - Agribusiness Technology Pathway (cert)

Courses

AGR110 - Agricultural Economics
AGR111 - Basic Farm Maintenance
AGR139 - Introduction to Sustainable Agriculture
AGR140 - Agricultural Chemicals
AGR145 - Introduction to Small Fruits
AGR170 - Soil Science
AGR210 - Agricultural Accounting
AGR212 - Farm Business Management
AGR213 - Agricultural Law & Finance
AGR214 - Agricultural Marketing
AGR261 - Agronomy
AGR262 - Weed ID & Control
ANS110 - Animal Science
ANS111 - Sustainable Livestock Management
ANS115 - Animal Feeds and Nutrition
ANS116 - Introduction to the Equine Industry
ANS180 - Equine Production
ANS210 - Livestock Production Issues
ANS212 - Livestock Records & Analysis
HOR112 - Landscape Design I
HOR134 - Greenhouse Operations
HOR150 - Introduction to Horticulture
HOR168 - Plant Propagation
WBL111 - Work-Based Learning I

Associate Degree Nursing Program Area

Curriculum Description

The Associate Degree Nursing curriculum provides knowledge, skills, and strategies to integrate safety and quality into nursing care, to practice in a dynamic environment, and to meet individual needs that impact health, quality of life, and achievement of potential.

Coursework includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes the nurse as a member of the interdisciplinary team providing safe, individualized care while employing evidence-based practice, quality improvement, and informatics.

Graduates of this program are eligible to apply to take the National Council Licensure Examination (NCLEX-RN). Employment opportunities are vast within the global healthcare system and may include positions within acute, chronic, extended, industrial, and community healthcare facilities.

Programs

A45110 - Associate Degree Nursing
A45110RB - Associate Degree Nursing - RIBN
A45110T - Associate Degree Nursing - LPN to ADN

Courses

NUR111 - Introduction to Health Concepts
NUR112 - Health-Illness Concepts
NUR113 - Family Health Concepts
NUR114 - Holistic Health Concepts
NUR211 - Health Care Concepts
NUR212 - Health System Concepts
NUR213 - Complex Health Concepts
NUR214 - Nursing Transition Concepts

Associate in Arts Program Area

Curriculum Description

The Associate in Arts degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). The CAA enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

Programs

A10100 - Associate in Arts
A10100D - Associate in Arts - Pre Dental
A10100E - Associate in Arts - Pre EMS
A10100HT - Associate in Arts - Health Transfer
A10100N - Associate in Arts - Pre Nursing
A1010T - Associate in Arts in Teacher Preparation (AATP)

Courses

ANT210 - General Anthropology
ANT220 - Cultural Anthropology
ART111 - Art Appreciation
ART114 - Art History Survey I
ART115 - Art History Survey II
ART118 - Art by Women
ART121 - Two-Dimensional Design
ART131 - Drawing I
ART132 - Drawing II
ART140 - Basic Painting
ART240 - Painting I
ART241 - Painting II
CHM130 - General, Organic, & Biochemistry
CHM130A - General, Organic, & Biochemistry Lab
COM231 - Public Speaking
COM251 - Debate I
EDU187 - Teaching and Learning for All
ENG111 - Writing and Inquiry
ENG112 - Writing and Research in the Disciplines
ENG231 - American Literature I
ENG232 - American Literature II
ENG241 - British Literature I
ENG242 - British Literature II
ENG261 - World Literature I
ENG262 - World Literature II
FRE111 - Elementary French I
FRE112 - Elementary French II
FRE181 - French Lab 1
FRE182 - French Lab 2
GEO111 - World Regional Geography
HEA110 - Personal Health/Wellness
HEA112 - First Aid & CPR
HEA120 - Community Health
HIS111 - World Civilizations I
HIS112 - World Civilizations II
HIS131 - American History I
HIS132 - American History II
HUM110 - Technology and Society
HUM115 - Critical Thinking
HUM120 - Cultural Studies
HUM122 - Southern Culture
HUM130 - Myth in Human Culture
HUM170 - The Holocaust
HUM180 - International Cultural Exploration
HUM211 - Humanities I
HUM212 - Humanities II
HUM220 - Human Values and Meaning
HUM230 - Leadership Development
MUS110 - Music Appreciation
MUS112 - Introduction to Jazz
MUS152S - Class Music II - Voice
PED110 - Fit and Well for Life
PED113 - Aerobics I
PED117 - Weight Training I
PED120 - Walking for Fitness
PED130 - Tennis-Beginning
PED137 - Badminton
PED143 - Volleyball-Beginning
PED152 - Swimming-Beginning
PED153 - Swimming-Intermediate

PED155 - Water Aerobics
PED219 - Disc Golf
PHI215 - Philosophical Issues
PHI240 - Introduction to Ethics
POL120 - American Government
POL220 - International Relations
PSY150 - General Psychology
PSY231 - Forensic Psychology
PSY237 - Social Psychology
PSY241 - Developmental Psychology
PSY245 - Child Development II
PSY281 - Abnormal Psychology
REL110 - World Religions
REL111 - Eastern Religions
REL211 - Introduction to Old Testament
REL212 - Introduction to New Testament
SOC210 - Introduction to Sociology
SOC213 - Sociology of the Family
SOC220 - Social Problems
SOC225 - Social Diversity
SPA111 - Elementary Spanish I
SPA112 - Elementary Spanish II
SPA120 - Spanish for the Workplace
SPA181 - Spanish Lab 1
SPA182 - Spanish Lab 2
SPA211 - Intermediate Spanish I
SPA212 - Intermediate Spanish II
SPA281 - Spanish Lab 3
SPA282 - Spanish Lab 4

Associate in Engineering Program Area

Curriculum Description

The Associate in Engineering (AE) degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

The degree plan includes required general education and prerequisite courses that are acceptable to all state-funded Bachelor of Engineering programs. Students who follow the degree progression plan will meet the entrance requirements at all of the North Carolina public Bachelor of Science Engineering programs. Associate in Engineering graduates may then apply to any of these programs without taking additional and sometimes duplicative courses. Admission to Engineering programs is highly competitive, and admission is not guaranteed.

To be eligible for the transfer of credits under the Associate in Engineering to the Bachelor of Science in Engineering Articulation Agreement, community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.5 on a 4.0 scale.

Programs

A10500 - Associate in Engineering

Courses

DFT170 - Engineering Graphics
EGR150 - Introduction to Engineering

Associate in General Education Program Area

Curriculum Description

The Associate in General Education (AGE)-Nursing is designed for students who wish to begin their study toward the Associate in Nursing degree and a Baccalaureate degree in Nursing as based on Blocks 1 through 3 of the Uniform Articulation Agreement between the University of North Carolina's Registered Nurse (RN) to Bachelor of Science in Nursing (BSN) programs and the North Carolina Community College Associate Degree Nursing Programs which was approved by the State Board of Community Colleges and the UNC Board of Governors in February 2015. The AGE-Nursing shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses.

A student who completes an Associate in Applied Science (AAS) in Nursing with a GPA of at least 2.0 and a grade of C or better in the AGE-Nursing courses listed below and who holds a current unrestricted license as a Registered Nurse in North Carolina will have fulfilled the UNC institutions lower-division general education requirements as well as nursing program entry requirements. However, because nursing program admissions are competitive, no student is guaranteed admission to the program of their choice.

Programs

A1030N - Associate in General Education-Nursing

Associate in Science Program Area

Curriculum Description

The Associate in Science degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). The CAA enables North Carolina community college graduates of two-year associate in science programs who are admitted to constituent institutions of The University of North Carolina to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

Programs

A10400 - Associate in Science
A1040T - Associate in Science in Teacher Preparation (ASTP)

Courses

AST111 - Descriptive Astronomy
AST111A - Descriptive Astronomy Lab
AST151 - General Astronomy I
AST151A - General Astronomy I Lab
AST152 - General Astronomy II
AST152A - General Astronomy II Lab
BIO110 - Principles of Biology
BIO111 - General Biology I
BIO112 - General Biology II
BIO140 - Environmental Biology
BIO140A - Environmental Biology Lab
BIO155 - Nutrition
BIO163 - Basic Anatomy & Physiology
BIO168 - Anatomy and Physiology I
BIO169 - Anatomy and Physiology II
BIO175 - General Microbiology
BIO275 - Microbiology
CHM131 - Introduction to Chemistry
CHM131A - Introduction to Chemistry Lab
CHM132 - Organic and Biochemistry
CHM151 - General Chemistry I
CHM152 - General Chemistry II
CHM251 - Organic Chemistry I
CHM252 - Organic Chemistry II
GEL111 - Geology
MAT110 - Mathematical Measurement and Literacy
MAT121 - Algebra/Trigonometry I
MAT122 - Algebra/Trigonometry II
MAT143 - Quantitative Literacy
MAT152 - Statistical Methods I
MAT171 - Precalculus Algebra
MAT172 - Precalculus Trigonometry
MAT263 - Brief Calculus
MAT271 - Calculus I
MAT272 - Calculus II
MAT273 - Calculus III
MAT280 - Linear Algebra
MAT285 - Differential Equations
PHY110 - Conceptual Physics
PHY110A - Conceptual Physics Lab
PHY151 - College Physics I
PHY152 - College Physics II
PHY251 - General Physics I
PHY252 - General Physics II

Audio and Video Production Technology Program Area

Curriculum Description

Students enrolled in the Audio and Video Production Technology curriculum will develop professional skills in audio, video, and related applications.

Training will emphasize speech, writing, production planning, post production, and distribution. Students will also study the evolution of media, revenue models, entrepreneurial opportunities, and governmental regulations. Hands-on training, troubleshooting, collaboration, and time management skills are essential to the instructional process.

Upon successful completion, students are prepared to obtain audio and/or video-related employment.

Programs

A30120 - Audio and Video Production Technology
C3012001 - Basic Audio Production (Certificate)
C3012003 - Podcast Streaming (cert)
C30120P - Streaming/Podcasting Certificate Pathway
D3012001 - Audio/video Production Technology (Diploma)

Courses

BPT110 - Media Evolution
BPT111 - Broadcast Law & Ethics
BPT112 - Media Writing
BPT113 - Broadcast Sales
BPT115 - Public Relations
BPT121 - Media Speech Techniques
BPT131 - Audio Production I
BPT132 - Audio Production II
BPT135 - Audio Performance I
BPT136 - Audio Performance II
BPT140 - Introduction to Media Productions
BPT215 - Industry Career Preparation
BPT220 - Emerging Technologies
BPT231 - Video Production I
BPT232 - Video Production II
BPT235 - Video Performance I
BPT236 - Video Performance II
BPT242 - Broadcast Journalism II
BPT255 - Computer-Based Production
DME110 - Introduction to Digital Media
DME140 - Introduction to Audio/Video Media
FVP227 - Multimedia Production
WBL111 - Work-Based Learning I

Basic Law Enforcement Training Program Area

Curriculum Description

Basic Law Enforcement Training (BLET) is designed to give students the essential skills required for entry-level employment as law enforcement officers with state, county, or municipal governments, or with private enterprise.

This program utilizes State commission-mandated topics and methods of instruction. General subjects include but are not limited to, criminal, juvenile, civil, traffic, and alcohol beverage laws; investigative, patrol, custody, and court procedures; emergency responses; and ethics and community relations.

Students must successfully complete and pass all units of study mandated by the North Carolina Criminal Justice Education and Training Standards Commission and the North Carolina Sheriffs' Education and Training Standards Commission to receive a certificate.

Programs

C55120 - Basic Law Enforcement Training (Certificate)

Courses

LET110 - Basic Law Enforcement Training (BLET)

Building Construction Technology Program Area

Curriculum Description

The Building Construction Technology curriculum prepares individuals to apply technical knowledge and skills to residential and commercial building construction and remodeling. This includes instruction in construction equipment and safety; site preparation and layout; construction estimating; print reading; building codes; framing; masonry; heating, ventilation, and air conditioning; electrical and mechanical systems; interior and exterior finishing; and plumbing.
Graduates should qualify for entry-level jobs in the construction and trades profession as well as positions in industry and government.

Programs

A35140 - Building Construction Technology
C3514001 - Basic Carpentry (Certificate)
C3514002 - Advanced Carpentry (Certificate)
C3514003 - Basic Plumbing (Certificate)
C3514004 - Basic HVAC (Certificate)
C351403P - Building Construction Technology Basic Plumb Pathway (Cert)
C35140BP - Building Construction Technology Basic Carpen Pathway (cert)
D35140 - Building Construction Technology (Diploma)

Courses

AHR151 - HVAC Duct Systems I
AHR210 - Residential Building Code
AHR211 - Residential System Design
ARC111 - Introduction to Architectural Technology
ARC112 - Construction Materials & Methods
ARC114 - Architectural CAD
ARC131 - Building Codes
BPR130 - Print Reading-Construction
CAB111 - Cabinetmaking I
CAR111 - Carpentry I
CAR112 - Carpentry II
CAR113 - Carpentry III
CAR120 - Commercial Carpentry I
CAR150 - Concrete Construction
CIV240 - Project Management
CMT120 - Codes and Inspections
CMT210 - Construction Management Fundamentals
CMT212 - Total Safety Performance
CMT214 - Planning and Scheduling
CST111 - Construction I
CST112 - Construction II
CST113 - Construction III
CST131 - OSHA/Safety/Certification
CST211 - Construction Surveying
CST220 - Seismic & Load Estimating
CST232 - Basic Construction Equipment Ops
CST241 - Planning/Estimating I
CST244 - Sustainable Building Design
CST251 - Electrical Wiring Systems
CST260 - General Contractor Preparation
MAS140 - Introduction to Masonry
PLU111 - Introduction to Basic Plumbing
PLU115 - Basic Plumbing
PLU211 - Commercial/Ind Plumbing
SST110 - Introduction to Sustainability
SST120 - Energy Use Analysis
SST140 - Green Building and Design Concepts
WOL110 - Basic Construction Skills

Business Administration Program Area

Curriculum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions and processes and an understanding of business organizations in today's global economy.

Coursework includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision-making. Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small businesses or industries.

Programs

A25120 - Business Administration
C25120 - Business Administration (Certificate)
C25120B - Business Administration - Business Information Systems (cert
C25120E - Business Administration - Business Economics (certificate)
C25120EP - Business Administration - Business Economics Pathway (cert)
C25120F - Business Administration - Office Management (certificate)
C25120P - Business Administration Pathway (cert)
C25120S - Business Administration - Small Business (certificate)
C25120T - Business Administration - Business Technology (cert)
C25120W - Business Administration - Business Web Development (cert)
D25120 - Business Administration (Diploma)

Courses

BUS110 - Introduction to Business
BUS115 - Business Law I
BUS125 - Personal Finance
BUS135 - Principles of Supervision
BUS137 - Principles of Management
BUS139 - Entrepreneurship I
BUS153 - Human Resource Management
BUS230 - Small Business Management
BUS253 - Leadership and Management Skills
BUS260 - Business Communication
BUS270 - Professional Development
CIS110 - Introduction to Computers
CTS130 - Spreadsheet
ECO251 - Principles of Microeconomics
ECO252 - Principles of Macroeconomics
ETR220 - Innovation and Creativity

HRM110 - Introduction to Hospitality and Tourism
HRM140 - Legal Issues-Hospitality
HRM150 - Training for Hospitality
HRM210 - Meetings and Event Planning
HRM235 - Quality Management-Hospitality
MKT120 - Principles of Marketing
MKT220 - Advertising and Sales Promotion
MKT223 - Customer Experience
OST134 - Text Entry & Formatting
OST136 - Word Processing
OST164 - Office Editing
OST181 - Office Procedures
OST288 - Medical Office Administration Capstone
WBL110 - World of Work

CCP Pathway: Associate in Arts Program Area

Curriculum Description

The CCP College Transfer Pathway Leading to an Associate in Arts is designed for high school juniors and seniors who wish to begin study toward the Associate in Arts degree and a baccalaureate degree in a non-STEM major.

Programs

P1012C - College Transfer Pathway: Associate in Arts

CCP Pathway: Associate in Engineering Program Area

Curriculum Description

The College Transfer Pathway (CCP) leading to the Associate in Engineering is designed for high school juniors and seniors who wish to begin study toward the Associate in Engineering degree and a baccalaureate degree in a STEM or technical major.

Programs

P1052C - College Transfer Pathway - Associate in Engineering

CCP Pathway: Associate in Nursing Program Area

Curriculum Description

The Career and College Promise (CCP) ADN Pathway is designed for high school juniors and seniors who wish to begin their educational studies toward an Associate in Nursing degree and a Baccalaureate degree in Nursing.

The Pathway is based on Block 1 of the Uniform Articulation Agreement between the University of North Carolina's Registered Nurse to Bachelor of Science in Nursing programs and the North Carolina Community College Associate Degree Nursing Programs, which was approved by the State Board of Community Colleges and the UNC Board of Governors in February 2015.

A student who completes an Associate in Applied Science (AAS) in Nursing, which includes the courses listed below, with a GPA of at least 2.0 and a grade of C or better and completes the courses in Blocks 2-3 of the Uniform Articulation Agreement between the University of North Carolina's Registered Nurse to Bachelor of Science in Nursing programs and the North Carolina Community College Associate Degree Nursing Programs with a GPA of at least 2.0 and a grade of C or better, and who holds a current unrestricted license as a Registered Nurse in North Carolina will have fulfilled the UNC institutions lower-division general education requirements as well as nursing program entry requirements. However, because nursing program admissions are competitive, no student is guaranteed admission to the program of their choice.

Programs

P1032C - College Transfer Pathway - Associate Degree Nursing

CCP Pathway: Associate in Science Program Area

Curriculum Description

The CCP College Transfer Pathway Leading to the Associate in Science is designed for high school juniors and seniors who wish to begin studies toward an Associate in Science degree and a baccalaureate degree in a STEM or technical major.

Programs

P1042C - College Transfer Pathway - Associate in Science

Career and Technical Teacher Education Program Area

Curriculum Description

The Career and Technical Teacher Education Program (also known as Lateral Entry) curriculum is designed for individuals skilled and experienced in a trade or technical specialty who would like to receive an associate degree in preparation for teaching or other purposes.

Coursework is designed to supplement previous education, training, and/or experience the individual has already attained.

Graduates of the program may find employment as instructors in the field of occupational education.

Programs

A55320 - Career and Technical Teacher Education Program
C55320 - Career and Technical Education Program Certificate
D55320 - Career and Technical Education Program (Diploma)

Courses

EDU161 - Introduction to Exceptional Children
EDU175 - Introduction to Trade and Industrial Education
EDU176 - Occupational Analysis and Course Development
EDU177 - Instructional Methods
EDU179 - Vocational Student Organizations
EDU243 - Learning Theory
EDU244 - Human Growth and Development
EDU281 - Instructional Strategies in Reading and Writing

Computer Engineering Technology Program Area

Curriculum Description

The Computer Engineering Technology curriculum prepares the students to use basic engineering principles and technical skills for installing, servicing, and maintaining computers, peripherals, networks, and microprocessor and computer-controlled equipment. Includes instruction in mathematics, computer electronics and programming, prototype development and testing, systems installation and testing, solid state and microminiature circuitry, peripheral equipment, and report preparation. Graduates should qualify for employment opportunities in

electronics technology, computer service, computer networks, server maintenance, programming, and other areas requiring knowledge of electronic and computer systems. Graduates may also qualify for certification in electronics, computers, or networks.

Courses

CET111 - Computer Upgrade/Repair I
CET130 - Operating Systems Principles
CET161 - Procedural Programming
ELC138 - DC Circuit Analysis
ELN233 - Microprocessor Systems

Computer Integrated Machining Program Area

Curriculum Description

The Computer-Integrated Machining curriculum prepares students with the analytical, creative, and innovative skills necessary to develop a production idea from an initial concept through design, development, and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

Programs

A50210 - Computer-Integrated Machining
C5021001 - Machining (Certificate)
C5021002 - CNC (Certificate)
C5021003 - Motorsports Machining (Certificate)
C5021004 - Advanced Motorsports Machining (Certificate)
C50210P - Computer-Integrated Machining Pathway (cert)
D50210 - Computer-Integrated Machining (diploma)

Courses

AUT211 - Automotive Machining
BPR111 - Print Reading

MAC113 - Machining Technology III
MAC118 - Machine Shop Basic
MAC121 - Introduction to CNC
MAC122 - CNC Turning
MAC124 - CNC Milling
MAC126 - CNC Metal Fabrication
MAC141 - Machining Applications I
MAC141A - MacHining Applications I Lab
MAC142 - Machining Applications II
MAC142A - Machining Applications II Lab
MAC151 - Machining Calculations
MAC171 - Measure/Material and Safety
MAC214 - Machining Technology IV
MAC222 - Advanced CNC Turning
MAC224 - Advanced CNC Milling
MAC232 - CAM: Computer Numerical Control Milling
MAC233 - Appl in CNC Machining
MAC234 - Advanced Multi-Axis Machining
MAC234A - Advanced Multi-Axis MacHining Lab
MAC241 - Jigs & Fixtures I
MEC110 - Introduction to CAD/CAM

Computer-Aided Drafting Program Area

Computer-Aided Drafting Technology prepares the students to apply technical skills and advanced computer software and hardware to develop plans and related documentation, and manage the hardware and software of a CAD system. Includes instruction in architectural drafting, computer-assisted drafting and design (CADD), creating and managing two and three-dimensional models, linking CAD documents to other software applications, and operating systems. Graduates should qualify for CAD jobs in architectural and engineering consulting firms and industrial design businesses.

Programs

A50150 - Computer-Aided Drafting Technology
C50150 - Computer-Aided Drafting Technology
C50150P - Computer-Aided Drafting

Cosmetology Program Area

Curriculum Description

The Cosmetology curriculum is designed to provide competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the cosmetology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Coursework includes instruction in all phases of professional imaging, hair design, chemical processes, skin care, nail care, multi-cultural practices, business/computer principles, product knowledge, and other selected topics.

Graduates should qualify to sit for the State Board of Cosmetic Arts examination. Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in beauty salons and related businesses.

Programs

A55140 - Cosmetology
C55140 - Cosmetology (Certificate)

Courses

COS111 - Cosmetology Concepts I
COS112 - Salon I
COS113 - Cosmetology Concepts II
COS114 - Salon II
COS115 - Cosmetology Concepts III
COS116 - Salon III
COS117 - Cosmetology Concepts IV
COS118 - Salon IV
COS223 - Contemporary Hair Coloring
WBL115 - Work-Based Learning Seminar I

Cosmetology Instructor (Certificate) Program Area

Curriculum Description

The Cosmetology Instructor curriculum provides a course of study for learning the skills needed to teach the theory and practice of cosmetology as required by the North Carolina Board of Cosmetic Arts.

The coursework includes the requirements for becoming an instructor, an introduction to teaching theory, methods and aids, practice teaching, and the development of evaluation instruments.

Graduates of the program may be employed as cosmetology instructors in public or private education and business.

Programs

C55160 - Cosmetology Instructor (Certificate)

Courses

COS271 - Instructor Concepts I
COS272 - Instructor Practicum I
COS273 - Instructor Concepts II
COS274 - Instructor Practicum II

Criminal Justice Technology Program Area

Curriculum Description

The Criminal Justice Technology curriculum is designed to provide knowledge of criminal justice systems and operations. Studies will focus on local, state, and federal law enforcement, judicial processes, corrections, and security services. The criminal justice system's role within society will be explored.

Emphasis is on criminal justice systems, criminology, juvenile justice, criminal and constitutional law, investigative principles, ethics, and community relations. Additional studies may include issues and concepts of government, counseling, communications, computers, and technology.

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. Examples include police officers, deputy sheriffs, county detention officers, state troopers, intensive probation/parole surveillance officers, correctional officers, and loss prevention specialists.

Programs

A55180 - Criminal Justice Technology
C55180 - Criminal Justice Technology (Certificate)
C55180P - Criminal Justice Technology Pathway (cert)
D55180 - Criminal Justice Technology (Diploma)

Courses

CJC111 - Introduction to Criminal Justice
CJC112 - Criminology
CJC113 - Juvenile Justice
CJC120 - Interviews/Interrogations
CJC121 - Law Enforcement Operations
CJC122 - Community Policing
CJC131 - Criminal Law
CJC132 - Court Procedure & Evidence
CJC141 - Corrections
CJC151 - Introduction to Loss Prevention
CJC160 - Terrorism: Underlying Issues
CJC212 - Ethics & Community Relations
CJC213 - Substance Abuse
CJC221 - Investigative Principles
CJC222 - Criminalistics
CJC223 - Organized Crime
CJC225 - Crisis Intervention
CJC231 - Constitutional Law
CJC232 - Civil Liability
CJC255 - Issues in Criminal Justice Application

Dental Assisting Program Area

Curriculum Description

The Dental Assisting curriculum prepares individuals to assist the dentist in the delivery of dental treatment and to function as integral members of the dental team while performing chairside and related office and laboratory procedures.

Coursework includes instruction in general studies, biomedical sciences, dental sciences, clinical sciences, and clinical practice. A combination of lecture, laboratory, and clinical experiences provides students with knowledge in infection/hazard control, radiography, dental materials, preventive dentistry, and clinical procedures.

Graduates may be eligible to take the Dental Assisting National Board Examination to become Certified Dental Assistants. As a Dental Assistant II, defined by the Dental Laws of North Carolina, graduates work in dental offices and other related areas.

Programs

D45240 - Dental Assisting (Diploma)

Courses

DEN100 - Basic Orofacial Anatomy
DEN101 - Preclinical Procedures
DEN102 - Dental Materials
DEN103 - Dental Sciences
DEN104 - Dental Health Education
DEN105 - Practice Management
DEN106 - Clinical Practice I
DEN107 - Clinical Practice II
DEN111 - Infection/Hazard Control
DEN112 - Dental Radiography

Dental Hygiene Program Area

Curriculum Description

The Dental Hygiene curriculum provides individuals with the knowledge and skills to assess, plan, implement, and evaluate dental hygiene care for the individual and the community.

Students will learn to prepare the operatory, take patient histories, note abnormalities, plan care, teach oral hygiene, clean teeth, take x-rays, apply preventive agents, complete necessary chart entries, and perform other procedures related to dental hygiene care.

Graduates of this program may be eligible to take national and state/regional examinations for licensure, which are required to practice dental hygiene. Employment opportunities include dental offices, clinics, schools, public health agencies, industry, and professional education.

Programs

A45260 - Dental Hygiene

Courses

DEN110 - Orofacial Anatomy
DEN120 - Dental Hygiene Preclinic Lecture
DEN121 - Dental Hygiene Preclinical Lab
DEN123 - Nutrition/Dental Health
DEN124 - Periodontology
DEN125 - Dental Office Emergencies
DEN130 - Dental Hygiene Theory I
DEN131 - Dental Hygiene Clinic I
DEN140 - Dental Hygiene Theory II
DEN141 - Dental Hygiene Clinic II
DEN220 - Dental Hygiene Theory III
DEN221 - Dental Hygiene Clinic III
DEN222 - General & Oral Pathology
DEN223 - Dental Pharmacology
DEN224 - Materials and Procedures
DEN230 - Dental Hygiene Theory IV
DEN231 - Dental Hygiene Clinic IV
DEN232 - Community Dental Health
DEN233 - Professional Development

Early Childhood Administration Program Area

This curriculum prepares individuals pursuing administrating roles in diverse child care settings to effectively work with children, families and teachers. The certificate is composed of learning opportunities in developmental theories, competency and evidence-based professional knowledge, administrative skills and leadership qualities.

Course work includes foundations in early childhood education, physical/nutritional needs of young children, safety issues in the care of young children; communication and leadership skills with teachers, families and children; programming and staffing, budgeting/financial management and marketing, and rules and regulations of early childhood programs.

Employment opportunities include entrepreneurship and/or management of child development and child care programs, preschools, public and private schools, recreational centers, Early Head Start and Head Start programs, and other programs.

Programs

C55850 - Early Childhood Administration (certificate)

Courses

EDU261 - Early Childhood Administration I
EDU262 - Early Childhood Administration II

Early Childhood Education Program Area

Curriculum Description

The Early Childhood Education curriculum prepares individuals to work with children from birth through eight in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Coursework includes child growth and development, physical/nutritional needs of children, care and guidance of children, and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

Programs

A55220 - Early Childhood Education
A55220C - Early Childhood Education - Career Entry
A55220L - Early Childhood Education Birth to K Licensure Transfer
A55220N - Early Childhood Education Non-Licensure
C55220 - Early Childhood Education (Certificate)
C55220P - Early Childhood Education Pathway
D55220 - Early Childhood Education (Diploma)

Courses

EDU119 - Introduction to Early Childhood Education
EDU131 - Child, Family, and Community
EDU151 - Creative Activities
EDU153 - Health, Safety and Nutrition
EDU184 - Early Childhood Introductory Practicum
EDU185 - Cognitive and Language Activities
EDU214 - Early Childhood Intermediate Practicum
EDU250 - Teacher Licensure Preparation
EDU279 - Literacy Development and Instruction
EDU280 - Language and Literacy Experiences
EDU284 - Early Childhood Capstone Practicum

Early Childhood Preschool Program Area

Curriculum Description

This curriculum prepares individuals to work with preschool aged children (3-5) in diverse learning environments. Students will combine learned theories, competency-based knowledge, and practice in actual settings with preschool children.

Coursework includes child growth and development, physical/nutritional needs of preschool children, safety issues in the care of preschool children; care and guidance; communication skills with families and children; design and implementation of appropriate curriculum; and other related topics.

Graduates should be prepared to plan and implement developmentally appropriate preschool programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and other preschool programs.

Courses

EDU145 - Child Development II
EDU146 - Child Guidance

Electrical Systems Technology Program Area

Curriculum Description

This curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical systems.

Programs

A35130 - Electrical System Technology
C3513001 - Electrical Wiring (Certificate)
C3513002 - Industrial Controls (Certificate)
C351301P - Electrical Systems Technology Pathway (cert)
D35130 - Electrical Systems Technology (Diploma)

Courses

ALT120 - Renewable Energy Technologies
ALT250 - Thermal Systems

ELC111 - Introduction to Electricity
ELC112 - DC/AC Electricity
ELC113 - Residential Wiring
ELC114 - Commercial Wiring
ELC115 - Industrial Wiring
ELC117 - Motors and Controls
ELC118 - National Electrical Code
ELC119 - NEC Calculations
ELC127 - Software for Technicians
ELC128 - Introduction to Programmable Logic Controller
ELC132 - Electrical Drawings
ELC134 - Transformer Applications
ELC135 - Electrical Machines
ELC139 - AC Circuit Analysis
ELC220 - Photovoltaic System Technology
ELC221 - Advanced Photovoltaic System Designs
ELC228 - Programmable Logic Controllers Applications
ELC229 - Applications Project
ELN229 - Industrial Electronics
ELN231 - Industrial Controls
ELN237 - Local Area Networks
EUS110 - Introduction to Electric Utility Industry

Electronics Engineering Technology Program Area

Curriculum Description

The Electronics Engineering Technology curriculum prepares students to apply basic engineering principles and technical skills to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems.

Includes instruction in mathematics, basic electricity, solid-state fundamentals, digital concepts, and microprocessors or programmable logic controllers.

Graduates should qualify for employment as electronics engineering technicians, field service technicians, instrumentation technicians, maintenance technicians, electronic testers, electronic systems integrators, bench technicians, and production control technicians.

Programs

A40200 - Electronics Engineering Technology
C4020001 - Electronics Engineering Tech Electronics & Automation (Cert)
C4020002 - Electronics Engineering Tech Electric Utility (Certificate)

C40200P - Electronics Engineering Technology Pathway (cert)

Courses

ATR115 - Introduction to Mechatronics
ATR211 - Robot Programming
EGR110 - Introduction to Engineering Technology
EGR125 - Applications Software for Tech
ELC231 - Electric Power Systems
ELC233 - Energy Management
ELN131 - Analog Electronics I
ELN133 - Digital Electronics
ELN152 - Fabrication Techniques
ELN232 - Introduction to Microprocessors
ELN249 - Digital Communication
EUS130 - Electric Utility Print Reading
PHY131 - Physics-Mechanics
PHY132 - Physics-Electricity & Magnetism

Emergency Medical Science Program Area

Curriculum Description

The Emergency Medical Science curriculum is designed to prepare graduates to enter the workforce as paramedics. Additionally, the program can provide an associate degree for individuals who desire an opportunity for career enhancement.

The course of study provides the student an opportunity to acquire basic and advanced life support knowledge and skills by utilizing classroom instruction, practical laboratory sessions, hospital clinical experience, and field internships with emergency medical service agencies.

Students progressing through the program may be eligible to apply for both state and national certification exams. Employment opportunities include ambulance services, fire and rescue agencies, air medical services, specialty areas of hospitals, industry, educational institutions, and government agencies.

Programs

A45340 - Emergency Medical Science

Courses

EMS110 - EMT
EMS122 - EMS Clinical Practicum I
EMS125 - EMS Instructor Methodology
EMS130 - Pharmacology
EMS131 - Advanced Airway Management
EMS160 - Cardiology I
EMS220 - Cardiology II
EMS221 - EMS Clinical Practicum II
EMS231 - EMS Clinical Practicum III
EMS235 - EMS Management

EMS240 - Patients With Special Challenges
EMS241 - EMS Clinical Practicum IV
EMS250 - Medical Emergencies
EMS260 - Trauma Emergencies
EMS270 - Life Span Emergencies
EMS280 - EMS Bridging Course
EMS285 - EMS Capstone

Equine Business Program Area

Curriculum Description

Equine Business programs prepare individuals to manage the selection, breeding, care, and maintenance of work, athletic, show and/or therapeutic horses, and manage horse farms, stables, tracks, or equine assisted-activity therapeutic centers, and related equipment and operations.

Potential coursework includes instruction in applicable principles of animal science, care, and health; stable and track management; design and operation of facilities and equipment; and related issues such as regulations, business management; and logistics.

This curriculum is designed to prepare students for positions within the horse industry. It is management-oriented, preparing graduates for the widest range of available equine jobs; areas of specialization may be pursued during the internship.

Graduates should qualify for jobs with many different types of equine operations: grooms to assistant managers, private to recreational and racing barns, and breed to discipline-oriented farms.

Courses

EQU110 - Introduction to Therapeutic Horsemanship
EQU111 - Horse Science I
EQU112 - Horse Science II
EQU115 - Principles of Equine Assisted Activities
EQU120 - Horsemanship I
EQU125 - Equine Behavior
EQU130 - Equine Anatomy & Physiology
EQU140 - Equine Evaluation I
EQU150 - Equine Nutrition
EQU210 - Training the Therapeutic Horse
EQU211 - Horse Farm Management I
EQU212 - Horse Farm Management II
EQU215 - Equine Assisted Activities-Teaching
EQU240 - Equine Evaluation II
EQU241 - Equine Reproduction
EQU270 - Equine Business Law

Esthetics Instructor Program Area

Curriculum Description

The Esthetics Instructor curriculum provides a course of study covering the skills needed to teach the theory and practices of esthetics as required by the North Carolina State Board of Cosmetology.

Coursework includes all phases of esthetics theory laboratory instruction.

Graduates should be prepared to take the North Carolina Cosmetology State Board Esthetics Instructor Licensing Exam and, upon passing, be qualified for employment in a cosmetology or esthetics school.

Courses

COS253 - Esthetics Instructional Concepts I
COS254 - Esthetic Instructional Concepts II

Esthetics Technology Program Area

Curriculum Description

The Esthetics Technology curriculum provides competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the art of skin care. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Coursework includes instruction in all phases of professional Esthetics Technology, business/human relations, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and, upon passing, be licensed and qualify for employment in beauty and cosmetic/skincare salons, as a platform artist, and in related businesses.

Programs

C55230 - Esthetics Technology (Certificate)

Courses

COS119 - Esthetics Concepts I
COS120 - Esthetics Salon I
COS125 - Esthetics Concepts II
COS126 - Esthetics Salon II

General Occupational Technology Program Area

Curriculum Description

The General Occupational Technology curriculum provides individuals with an opportunity to upgrade skills and earn an associate degree, diploma, and/or certificate by taking courses suited to individual occupational interests and/or needs.

The curriculum content will be customized for students according to occupational interests and needs. A program of study for each student will be selected from any non-developmental level courses offered by the College.

Graduates will become more effective workers, better qualified for advancements
within their field of employment, and become qualified for a wide range of entry-level employment opportunities.

Graphic Design Program Area

Curriculum Description

The Graphic Design curriculum is designed to provide students with the knowledge and skills necessary for employment in the graphic design profession, which emphasizes design, advertising, marketing, and illustration for printed and digital media.
Students will be trained in the creative process and application of design principles for advertisements, branding, corporate identity, layouts, typography, visual assets, custom graphics, self-promotional materials, and preparation of files for printed and digital distribution.
Graduates should qualify for employment opportunities with design, branding, advertising agencies, signage and printing companies, organizations with in-house marketing operations, freelance work, and entrepreneurial opportunities.

Programs

A30100 - Graphic Design
C30100 - Graphic Design (Certificate)
C3010001 - Photography (Certificate)
C3010002 - Animation (certificate)
C30100P - Graphic Design Pathway (cert)

Courses

DES135 - Principles and Elements of Design I
GRD110 - Typography I
GRD121 - Drawing Fundamentals I
GRD131 - Illustration I
GRD132 - Illustration II
GRD133 - Illustration III
GRD141 - Graphic Design I
GRD142 - Graphic Design II
GRD151 - Computer Design Basics
GRD152 - Computer Design Technology
GRD153 - Computer Design Solutions
GRD160 - Photo Fundamentals I
GRD161 - Photo Fundamentals II
GRD162 - Photography Portfolio

GRD167 - Digital Photography I
GRD168 - Digital Photography II
GRD182 - Digital and Print Marketing
GRD233 - Product Illustration
GRD241 - Graphic Design III
GRD242 - Graphic Design IV
GRD263 - Digital Image Editing
GRD280 - Portfolio Design
WBL111 - Work-Based Learning I
WBL121 - Work-Based Learning II

Industrial Systems Technology Program Area

Curriculum Description

The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to safely service, maintain, repair, or install equipment. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial systems. Students will learn multi-craft technical skills in print reading, mechanical systems maintenance, electricity, hydraulics/pneumatics, welding, machining or fabrication, and includes various diagnostic and repair procedures. Practical application in these industrial systems will be emphasized, and additional advanced coursework may be offered.

Upon completion of this curriculum, graduates should be able to, individually or with a team, safely install, inspect, diagnose, repair, and maintain industrial process and support equipment. Students will also be encouraged to develop their skills as life-long learners.

Programs

A50240 - Industrial Systems Technology
C5024001 - Industrial Systems Technology (Certificate)
C502401P - Industrial Systems Technology Pathway (cert)

Courses

AHR110 - Introduction to Refrigeration
AHR120 - HVACR Maintenance
AHR130 - HVAC Controls
HYD110 - Hydraulics/Pneumatics I
ISC121 - Environmental Health & Safety
ISC132 - Manufacturing Quality Control
MNT110 - Introduction to Maintenance Procedures
MNT222 - Industrial Systems Schematics
PFT111 - Piping & Valves

Infant/Toddler Care (Certificate) Program Area

Curriculum Description

The Infant/Toddler Care curriculum prepares individuals to work with children from infancy to three years of age in diverse learning environments. Students will combine learned theories, competency-based knowledge, and practice in actual settings with infants and toddlers.

Coursework includes infant/toddler growth and development: physical/nutritional needs of infants and toddlers; safety issues in the care of infants and toddlers; care and guidance; communication skills with families and children; design an implementation of appropriate curriculum; and other related topics.

Graduates should be prepared to plan and implement developmentally appropriate infant/toddler programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Early Head Start Programs, and other infant/toddler programs.

Courses

EDU234 - Infants, Toddlers, and Twos

Information Technology Program Area

Curriculum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/or hardware to design, process, implement, and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Coursework includes the development of a student's ability to create, store, communicate, exchange, and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security, and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies that rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Programs

A25590 - Information Technology
A25590AI - Information Technology - Artificial Intelligence
A25590CS - Information Technology - Cybersecurity

A25590I - Information Technology Business Support Specialty
A25590SW - Information Technology - Software/ Web Development
C25590AI - Artificial Intelligence Certificate
C25590C - Information Technology - Computer Programming (Certificate)
C25590CP - Information Technology - Computer Prog & Dev Pathway (cert)
C25590CS - Information Technology - Cybersecurity (certificate)
C25590I - Information Technology - Business Technology Certificate (C25590I)
C25590N - Information Technology - Networking Technology (Certificate)
C25590P - Information Technology Pathway (cert)
C25590SP - Information Technology Cybersecurity Pathway (cert)
C25590WD - Information Technology - Web Development (cert)

Courses

CCT112 - Ethics & High Technology
CCT121 - Computer Crime Investigation
CCT250 - Network Vulnerabilities I
CIS115 - Introduction to Programming and Logic
CSC113 - Artificial Intelligence Fundamentals
CSC114 - Artificial Intelligence I
CSC115 - Machine Learning I
CSC117 - Artificial Intelligence Tools I
CSC121 - Python Programming
CSC134 - C++ Programming
CSC139 - Visual BASIC Programming
CSC151 - JAVA Programming
CSC221 - Advanced Python Programming
CSC234 - Advanced C++ Programming
CSC239 - Advanced Visual BASIC Programming
CSC251 - Advanced JAVA Programming
CTI110 - Information Technology Foundations
CTI120 - Network and Security Foundations
CTI141 - Cloud and Storage Concepts
CTS115 - Information Systems Business Concepts
CTS120 - Hardware/Software Support
CTS240 - Project Management
CTS287 - Emerging Technologies
DBA110 - Database Concepts
NET125 - Introduction to Networks
NET126 - Switching and Routing
NOS110 - Operating Systems Concepts
NOS120 - Linux Single User
NOS220 - Linux Administration I
SEC110 - Security Concepts
SEC160 - Security Administration I
SEC175 - Perimeter Defense
SEC210 - Intrusion Detection
SEC285 - Systems Security Project
SGD112 - SGD Design I
SGD113 - SGD Programming I
WEB115 - Web Markup and Scripting
WEB140 - Web Development Tools
WEB182 - PHP Programming
WEB210 - Web Design
WEB250 - Database Driven Websites
WEB285 - Emerging Web Technologies

Manicuring Instructor (Certificate) Program Area

Curriculum Description

The Manicuring Instructor curriculum provides a course of study covering the skills needed to teach the theory and practices of manicuring as required by the North Carolina State Board of Cosmetology.

Coursework includes all phases of manicuring theory laboratory instruction. Graduates should be prepared to take the North Carolina Cosmetology State Board Manicuring Instructor Licensing Exam and, upon passing, be qualified for employment in a cosmetology or manicuring school.

Courses

COS251 - Manicure Instructional Concepts
COS252 - Manicure Instructional Practicum

Manicuring/Nail Technology Program Area

The Manicuring/Nail Technology curriculum provides competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the nail technology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Coursework includes instruction in all phases of professional nail technology, business/computer principles, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and, upon passing, be licensed and qualify for employment in beauty and nail salons, as a platform artist, and in related businesses.

Programs

C55400 - Manicuring/Nail Technology (Certificate)
C55400P - Manicuring/Nail Technology (Certificate) Pathway

Courses

COS121 - Manicure/Nail Technology I
COS222 - Manicure/Nail Tech. II

Mechanical Engineering Technology Program Area

Curriculum Description

The Mechanical Engineering Technology curriculum prepares students to use basic engineering principles and technical skills to design, develop, test, and troubleshoot projects involving mechanical systems. Includes instruction in principles of mechanics, applications to specific engineering systems, design testing procedures,

prototype, and operational testing and inspection procedures, manufacturing system-testing procedures, test equipment operation and maintenance, computer applications, critical thinking, planning and problem-solving, and oral and written communications.

Graduates of the curriculum may find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET.

Programs

A40320 - Mechanical Engineering Technology
C40320 - Mechanical Engineering Technology (Certificate)
C4032002 - Mechanical Engineering Technology Transition (Certificate)
C4032003 - Mechanical Engineering Advanced Technology (Certificate)
C403203P - Mechanical Engineering Technology Adv. Pathway (cert)
D40320 - Mechanical Engineering Technology (Diploma)

Courses

DDF211 - Design Process I
EGR250 - Statics/Strength of Mater
EGR285 - Design Project
ISC212 - Metrology
MAC114 - Introduction to Metrology
MEC161 - Manufacturing Processes I
MEC180 - Engineering Materials
MEC181 - Introduction to CIM
MEC231 - Computer-Aided Manufacturing I
MEC232 - Computer-Aided Manufacturing II
MEC270 - Machine Design
MEC271 - Machine Design Project

Mechatronics Engineering Technology Program Area

Curriculum Description

Mechatronics Engineering Technology prepares students to use basic engineering principles and technical skills in developing and testing automated, servomechanical, and other electromechanical systems.

Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures. Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement, and control systems, and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry examinations.

Coursework includes mathematics, natural sciences, engineering sciences and technology. Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial and technology managers, or research technicians.

Programs

A40350 - Mechatronics Engineering Technology
C40350I - Mechatronics Engineering Technology - Indus. Cyber. (cert)
C40350M - Mechatronics Engineering Technology (cert)
C40350P - Mechatronics Pathway

Courses

ATR112 - Introduction to Automation
ELC213 - Instrumentation
MAC160 - Coordinate Measuring Machines
MEC130 - Mechanisms

Medical Office Administration Program Area

Curriculum Description

The Medical Office Administration curriculum prepares individuals for employment as medical administrative personnel in the areas of medical office, medical billing and coding, dental office, patient services, and medical documents Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other healthcare-related organizations.

Course work includes medical terminology, computer applications, medical office management, medical coding, medical insurance and billing, medical legal and ethical issues, oral and written communication, and other topics depending on the subject area selected within this curriculum.

Graduates may qualify for employment opportunities in a variety of medical office positions in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other healthcare related organizations. Upon graduation, students may be eligible to sit for industry recognized certification exams.

Programs

A25310 - Medical Office Administration

A25310H - Medical Office Administration - Healthcare Admin Specialty

A25310M - Medical Office Admini - Medical Billing and Coding Specialty
A25310S - Medical Office Admin - Patient Services Rep Specialty
C25310G - Medical Office Administration - General (Certificate)
C25310H - Medical Office Administration - Healthcare Admin (Cert)
C25310M - Medical Office Admin Medical Billing and Coding (Cert)
C25310P - Medical Office Administration Pathway (cert)
C25310S - Medical Office Admin Patient Services Representative (Cert)
D25310 - Medical Office Administration (Diploma)

Courses

HMT110 - Introduction to Healthcare Management
HMT211 - Long-Term Care Administration
HMT212 - Management of Healthcare Organizations
MED121 - Medical Terminology I
MED122 - Medical Terminology II
OST148 - Medical Insurance and Billing
OST149 - Medical Legal Issues
OST243 - Medical Office Simulation
OST247 - Procedure Coding
OST248 - Diagnostic Coding
OST249 - Medical Coding Certification Preparation
OST264 - Medical Auditing

Practical Nursing Program Area

Curriculum Description

The Practical Nursing curriculum prepares individuals with the knowledge and skills to provide nursing care to children and adults. Students will participate in assessment, planning, implementing, and evaluating nursing care.

Graduates are eligible to apply to take the National Council Licensure Examination (NCLEX-PN), which is required for practice as a Licensed Practical Nurse. Employment opportunities include hospitals, rehabilitation/ long-term care/home health facilities, clinics, and physicians' offices.

Programs

D45660 - Practical Nursing (Diploma)

Courses

NUR101 - Practical Nursing I
NUR102 - Practical Nursing II
NUR103 - Practical Nursing III

Social and Human Services Program Area

Curriculum Description

The Social and Human Services curriculum prepares students for entry-level positions in institutions and agencies that provide social, community, and behavioral health services. Along with core courses, students take courses that prepare them for specialization in specific human service areas.

Coursework includes the development of professional knowledge, skills, and values in human services. Opportunities for experiential learning allow students to apply knowledge and skills learned in the classroom.

Graduates should qualify for positions in government, private, and nonprofit social and human services agencies. Graduates may choose to transfer and continue their education at a variety of colleges and universities.

Programs

A45380 - Social and Human Services
A45380A - Social and Human Services - Addiction & Recovery
A45380C - Social and Human Services - Child Advocacy Studies
A45380E - Social and Human Services - Equine Assisted Interactions
A45380G - Social and Human Services - General
A45380S - Social and Human Services - Small Animal Assisted Interactions
C45380 - Social and Human Services (Certificate)
C45380A - Social and Human Services - Addiction and Recovery (cert)
C45380C - Social and Human Services- Child Advocacy (Certificate)
C45380E - Social and Human Services - Equine Assisted Services (cert)
C45380P - Social and Human Services Pathway (certificate)
C45380S - Social and Human Services - Small Animal Assisted (certificate)
C45380SP - Social and Human Services - Small Animal Assisted Interactions Pathway
D45380 - Social and Human Services (Diploma)

Courses

AAI110 - Intro to Animal Assisted Interactions
AAI120 - Animals in Human Lives
AAI130 - Animal Handling Skills
AAI210 - Interaction Methodology
AAI220 - Interaction Documentation
AAI230 - Interaction Methodology & Documentation
CAS110 - Perspectives on Child Maltreatment and Advocacy
CAS120 - Cultural Awareness in Child Maltreatment & Advocacy
CAS210 - Professional & Systems Responses to Child Maltreatment
CAS220 - Responding to the Survivor of Child Abuse
DDT110 - Intellectual & Developmental Disabilities
HSE110 - Introduction to Human Services
HSE112 - Group Process I
HSE123 - Interviewing Techniques for Human Services
HSE125 - Counseling
HSE145 - Abuse & Neglect
HSE210 - Diversity, Ethics, and Trends in Human Services
HSE212 - Group Dynamics
HSE220 - Case Management
HSE223 - Counseling Theories & Skills
HSE225 - Crisis and Intervention Principles
HSE245 - Stress Management
SAB110 - Intro to Addiction & Recovery Studies
SAB120 - Intake and Assessment
SAB135 - Addictive Process
SAB240 - Diversity, Ethics, & Trends in Addiction & Recovery
WBL112 - Work-Based Learning I
WBL113 - Work-Based Learning I

Welding Technology Program Area

Curriculum Description

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses in math, blueprint reading, metallurgy, welding inspection, and destructive and non-destructive testing provide the student with industry-standard skills developed through classroom training and practical application.

Successful graduates of the Welding Technology curriculum may be employed as entry-level technicians in the welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Programs

A50420 - Welding Technology
C50420 - Welding Technology (certificate)
C5042001 - SMAW Welding (Certificate)
C5042002 - Advanced Welding (Certificate)
C5042003 - Advanced Welding & Inspection Processes (Certificate)
C5042004 - GMAW Welding Certificate
C5042005 - GTAW Welding Certificate
C50420P - Welding Technology Pathway (certificate)
D50420 - Welding Technology (Diploma)

Courses

WLD110 - Cutting Processes
WLD112 - Basic Welding Processes
WLD115 - SMAW (Stick) Plate
WLD116 - SMAW (stick) Plate/Pipe
WLD117 - Industrial SMAW
WLD121 - GMAW (MIG) FCAW/Plate
WLD122 - GMAW (MIG) Plate/Pipe
WLD131 - GTAW (TIG) Plate
WLD132 - GTAW (TIG) Plate/Pipe
WLD141 - Symbols and Specifications
WLD143 - Welding Metallurgy
WLD151 - Fabrication I
WLD215 - SMAW (stick) Pipe
WLD231 - GTAW (TIG) Pipe
WLD261 - Certification Practices
WLD262 - Inspection & Testing

All Programs

A10100 - Associate in Arts

Program Overview

Curriulum Description

The Associate in Arts degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). The CAA enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

Department(s)

Associate in Arts

Credential

AA - Associate in Arts

Program Code

A10100

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title

College Navigator

Name

The Patriot Hub

Phone

828-395-1436

Email

advising@isothermal.edu

Minimum Required Credit Hours

60

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

English Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities/Fine Arts

Type

Completion Requirement

Humanities/Fine Arts

Minimum 2 subjects

Earn at least 9 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- COM231 - Public Speaking
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics

Social Science

Type

Completion Requirement

Social Science

Minimum 2 subjects

Earn at least 9 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- SOC210 - Introduction to Sociology

Math

Type

Completion Requirement

Math Requirement

Earn at least 3 credits from the following:

- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Natural Sciences

Type

Completion Requirement

Take 1 of 5 groups

Fulfill ANY of the following requirements:

Earn at least 4 credits from the following:

No selection provided

OR

Earn at least 4 credits from the following:

No selection provided

OR

Earn at least 4 credits from the following:

- BIO110 - Principles of Biology

OR

Earn at least 4 credits from the following:

- BIO111 - General Biology I

OR

Earn at least 4 credits from the

following:

- CHM151 - General Chemistry I

OR

Earn at least 4 credits from the following:

- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Major Requirements

Additional Gen. Ed. Electives

Type

Completion Requirement

Earn at least 14 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO112 - General Biology II
- BIO140 - Environmental Biology
- BIO140A - Environmental Biology Lab
- CHM151 - General Chemistry I
- CHM152 - General Chemistry II
- CIS115 - Introduction to Programming and Logic
- COM231 - Public Speaking
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II
- MAT273 - Calculus III
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab
- PHY151 - College Physics I
- PHY152 - College Physics II
- PHY251 - General Physics I
- PHY252 - General Physics II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems
- SOC225 - Social Diversity
- SPA111 - Elementary Spanish I
- SPA112 - Elementary Spanish II

Complete ALL of the following :

Other Major Requirements

Pre-Major Required Electives

Type
Completion Requirement

Pre Major Required Electives

Earn at least 11 credits from the following:

- ACC120 - Principles of Financial Accounting
- ACC121 - Principles of Managerial Accounting
- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO112 - General Biology II
- BIO140 - Environmental Biology
- BIO140A - Environmental Biology Lab
- BIO155 - Nutrition
- BIO163 - Basic Anatomy & Physiology
- BIO168 - Anatomy and Physiology I
- BIO169 - Anatomy and Physiology II
- BIO275 - Microbiology
- BUS110 - Introduction to Business
- BUS115 - Business Law I
- BUS137 - Principles of Management
- CHM130 - General, Organic, & Biochemistry
- CHM130A - General, Organic, & Biochemistry Lab
- CHM151 - General Chemistry I
- CHM152 - General Chemistry II
- CIS115 - Introduction to Programming and Logic
- CJC111 - Introduction to Criminal Justice
- CJC113 - Juvenile Justice
- CJC121 - Law Enforcement Operations
- CJC141 - Corrections
- CJC212 - Ethics & Community Relations
- COM231 - Public Speaking
- CSC134 - C++ Programming
- CSC139 - Visual BASIC Programming
- CSC151 - JAVA Programming
- CSC239 - Advanced Visual BASIC Programming
- CSC251 - Advanced JAVA Programming
- CTS115 - Information Systems Business Concepts
- DFT170 - Engineering Graphics
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- EDU131 - Child, Family, and Community
- EDU144 - Child Development I
- EDU145 - Child Development II
- EDU216 - Foundations of Education
- EDU221 - Children With Exceptionalities
- EGR150 - Introduction to Engineering
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- HEA110 - Personal Health/Wellness
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- HSE110 - Introduction to Human Services

- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM180 - International Cultural Exploration
- HUM230 - Leadership Development
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II
- MAT273 - Calculus III
- MAT280 - Linear Algebra
- MAT285 - Differential Equations
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PED110 - Fit and Well for Life
- PED120 - Walking for Fitness
- PED219 - Disc Golf
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab
- PHY151 - College Physics I
- PHY152 - College Physics II
- PHY251 - General Physics I
- PHY252 - General Physics II
- POL120 - American Government
- PSY150 - General Psychology
- PSY231 - Forensic Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems
- SPA111 - Elementary Spanish I
- SPA112 - Elementary Spanish II
- SPA181 - Spanish Lab 1
- SPA182 - Spanish Lab 2
- EDU250 - Teacher Licensure Preparation

Complete ALL of the following :

Other

CIS Requirement

Type
Completion Requirement

CIS Requirement

Earn at least 3 credits from the following:

- CIS110 - Introduction to Computers

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Associate in Arts - Transfer plan for Accounting, Business Administration, & Marketing
Total Degree Map Credits
64
Degree Map Effective Catalog Year

2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** PHI240 - Introduction to Ethics
- **AND** ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** ECO252 - Principles of Macroeconomics
- **AND** BUS110 - Introduction to Business

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	8	0

Requirement Select

- MAT171 - Precalculus Algebra
- **AND** ACC120 - Principles of Financial Accounting

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	7	0

Requirement Select

- MAT172 - Precalculus Trigonometry
- **AND** BUS115 - Business Law I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	10	0

Requirement Select

- POL120 - American Government
- **AND** ACC121 - Principles of Managerial Accounting
- **AND** ART111 - Art Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	7	0

Requirement Select

- SOC210 - Introduction to Sociology
- **AND** BIO110 - Principles of Biology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Associate in Arts - Transfer plan for Art
Total Degree Map Credits
61
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** HIS111 - World Civilizations I
- **AND** ART111 - Art Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- MAT143 - Quantitative Literacy
- **AND** SPA111 - Elementary Spanish I
- **AND** SPA181 - Spanish Lab 1

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	7	0

Requirement Select

- SPA112 - Elementary Spanish II
- **AND** SPA182 - Spanish Lab 2
- **AND** SOC210 - Introduction to Sociology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	10	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** HUM120 - Cultural Studies
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	6	0

Requirement Select

- ENG241 - British Literature I
- **AND** ART115 - Art History Survey II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- HUM130 - Myth in Human Culture
- **AND** REL110 - World Religions
- **AND** BUS110 - Introduction to Business

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- PSY150 - General Psychology
- **AND** HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Associate in Arts - Transfer plan for Communications
Total Degree Map Credits
63
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** COM231 - Public Speaking
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** POL120 - American Government

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- ART111 - Art Appreciation
- **AND** SOC210 - Introduction to Sociology
- **AND** HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	7	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- PHI240 - Introduction to Ethics
- **AND** HUM170 - The Holocaust
- **AND** HIS111 - World Civilizations I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- HUM120 - Cultural Studies
- **AND** REL110 - World Religions
- **AND** MUS110 - Music Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- PSY241 - Developmental Psychology
- **AND** SOC220 - Social Problems

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Associate in Arts - Transfer plan for Criminal Justice
Total Degree Map Credits
62
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** COM231 - Public Speaking
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- POL120 - American Government
- **AND** MAT152 - Statistical Methods I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	10	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** PSY237 - Social Psychology
- **AND** CJC111 - Introduction to Criminal Justice

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	6	0

Requirement Select

- SOC220 - Social Problems
- **AND** MUS110 - Music Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- CJC121 - Law Enforcement Operations
- **AND** ECO251 - Principles of Microeconomics
- **AND** PHI240 - Introduction to Ethics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	7	0

Requirement Select

- SPA111 - Elementary Spanish I
- **AND** SPA181 - Spanish Lab 1
- **AND** PSY281 - Abnormal Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	7	0

Requirement Select

- SPA112 - Elementary Spanish II
- **AND** SPA182 - Spanish Lab 2
- **AND** CJC141 - Corrections

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Associate in Arts - Transfer plan for Emergency and Disaster Management
Total Degree Map Credits
64
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select
- ENG112 - Writing and Research in the Disciplines
- **AND** COM231 - Public Speaking
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select
- MAT152 - Statistical Methods I
- **AND** PHI240 - Introduction to Ethics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- ECO251 - Principles of Microeconomics
- **AND** SOC210 - Introduction to Sociology
- **AND** PSY237 - Social Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- REL110 - World Religions
- **AND** POL120 - American Government
- **AND** ECO252 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	7	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** CJC121 - Law Enforcement Operations

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	7	0

Requirement Select

- PHI215 - Philosophical Issues
- **AND** SPA111 - Elementary Spanish I
- **AND** SPA181 - Spanish Lab 1

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- CJC212 - Ethics & Community Relations
- **AND** SOC220 - Social Problems
- **AND** HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Associate in Arts - Transfer plan for History Education
Total Degree Map Credits
63
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** COM231 - Public Speaking
- **AND** SOC210 - Introduction to Sociology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term		

1	7	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** HIS131 - American History I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- EDU216 - Foundations of Education
- **AND** ENG231 - American Literature I
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- PHI215 - Philosophical Issues
- **AND** EDU144 - Child Development I
- **AND** REL110 - World Religions

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	6	0

Requirement Select

- EDU145 - Child Development II
- **AND** ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	10	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** POL120 - American Government
- **AND** HIS111 - World Civilizations I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- HIS112 - World Civilizations II
- **AND** HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Associate in Arts - Transfer plan for Management, Marketing, & Business Administration
Total Degree Map Credits
65
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** PHI240 - Introduction to Ethics
- **AND** ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** POL120 - American Government

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** ECO252 - Principles of Macroeconomics
- **AND** SOC210 - Introduction to Sociology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	7	0

Requirement Select

- SOC225 - Social Diversity
- **AND** ACC120 - Principles of Financial Accounting

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- BUS137 - Principles of Management
- **AND** BUS115 - Business Law I
- **AND** MUS110 - Music Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	10	0

Requirement Select

- ACC121 - Principles of Managerial Accounting
- **AND** HUM115 - Critical Thinking
- **AND** HUM120 - Cultural Studies

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	7	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** HIS112 - World Civilizations II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Associate in Arts - Transfer plan for Nutrition
Total Degree Map Credits
62
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** MAT152 - Statistical Methods I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- COM231 - Public Speaking
- **AND** CHM151 - General Chemistry I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	7	0

Requirement Select

- PHI240 - Introduction to Ethics
- **AND** CHM152 - General Chemistry II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	8	0

Requirement Select

- BIO111 - General Biology I
- **AND** ACC120 - Principles of Financial Accounting

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- BIO155 - Nutrition
- **AND** MUS110 - Music Appreciation
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	8	0

Requirement Select

- BIO163 - Basic Anatomy & Physiology
- **AND** SOC210 - Introduction to Sociology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- ENG231 - American Literature I
- **AND** HUM115 - Critical Thinking
- **AND** HIS111 - World Civilizations I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Associate in Arts - Transfer plan for Psychology
Total Degree Map Credits
62
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select
- ENG112 - Writing and Research in the Disciplines
- **AND** COM231 - Public Speaking
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select
- MAT152 - Statistical Methods I
- **AND** POL120 - American Government

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- HUM115 - Critical Thinking
- **AND** SOC210 - Introduction to Sociology
- **AND** ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	8	0

Requirement Select

- BIO111 - General Biology I
- **AND** SPA111 - Elementary Spanish I
- **AND** SPA181 - Spanish Lab 1

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	7	0

Requirement Select

- PHI240 - Introduction to Ethics
- **AND** BIO112 - General Biology II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- PHI215 - Philosophical Issues
- **AND** PSY241 - Developmental Psychology
- **AND** HUM130 - Myth in Human Culture

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- PSY237 - Social Psychology
- **AND** PSY281 - Abnormal Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Associate in Arts - Transfer plan for Social Work
Total Degree Map Credits
61
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** COM231 - Public Speaking
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** POL120 - American Government

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- HUM115 - Critical Thinking
- **AND** PSY237 - Social Psychology
- **AND** SOC220 - Social Problems

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	6	0

Requirement Select

- SOC225 - Social Diversity
- **AND** PHI215 - Philosophical Issues

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- PHI240 - Introduction to Ethics
- **AND** SOC210 - Introduction to Sociology
- **AND** PSY241 - Developmental Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	7	0

Requirement Select

- REL110 - World Religions
- **AND** SPA111 - Elementary Spanish I
- **AND** SPA181 - Spanish Lab 1

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	7	0

Requirement Select

- ECO251 - Principles of Microeconomics
- **AND** BIO110 - Principles of Biology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Communicate effectively through writing, reading, speaking, and listening through the demonstration of information literacy.

Analyze problems and make logical conclusions.

Demonstrate quantitative competencies.

Demonstrate technology skills.

Transfer successfully the entire core into a bachelor’s degree program at any state university in North Carolina to which they are accepted, as well as many other universities and colleges in the United States. Further, students that go beyond the transfer general education component and complete an AA degree or AS degree should be able to transfer as a junior (3rd year) level student.

A10100D - Associate in Arts - Pre Dental

Program Overview

Curriulum Description

The Associate in Arts degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). The CAA enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

Department(s)

Associate in Arts

Credential

AA - Associate in Arts

Program Code

A10100D

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title

College Navigator

Name

Melissa Tenpenny

Phone

828-395-1606

Email

mtenpenny@isothermal.edu

Minimum Required Credit Hours

63

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

English Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities/Fine Arts

Type

Completion Requirement

UGETC - Humanities/Fine Arts

Fulfill ALL of the following requirements:

Required Humanities

Earn at least 6 credits from the following:

- COM231 - Public Speaking
- PHI240 - Introduction to Ethics

AND

Humanities/Fine Arts

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues

Social Science

Type

Completion Requirement

UGETC - Social Science

Fulfill ALL of the following requirements:

Required Social Science

Earn at least 6 credits from the following:

- PSY150 - General Psychology
- SOC210 - Introduction to Sociology

AND

Social Science

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government

Math

Type

Completion Requirement

Math Requirement

Earn at least 3 credits from the following:

- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Natural Sciences

Type

Completion Requirement

Take 1 of 4 groups

Fulfill ANY of the following requirements:

Earn at least 4 credits from the following:

- BIO110 - Principles of Biology

OR

Earn at least 4 credits from the following:

- BIO111 - General Biology I

OR

Earn at least 4 credits from the following:

- CHM151 - General Chemistry I

OR

Earn at least 4 credits from the following:

- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Major Requirements

Additional Gen. Ed. Electives

Type

Completion Requirement

AGEE Electives

Fulfill ALL of the following requirements:

AGEE Elective

Earn at least 8 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO112 - General Biology II
- BIO140 - Environmental Biology
- BIO140A - Environmental Biology Lab
- CHM151 - General Chemistry I
- CHM152 - General Chemistry II
- CIS115 - Introduction to Programming and Logic
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II
- MAT273 - Calculus III
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab
- PHY151 - College Physics I
- PHY152 - College Physics II
- PHY251 - General Physics I
- PHY252 - General Physics II
- POL120 - American Government
- PSY237 - Social Psychology
- PSY281 - Abnormal Psychology

- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- SOC213 - Sociology of the Family
- SOC220 - Social Problems
- SOC225 - Social Diversity
- SPA111 - Elementary Spanish I
- SPA112 - Elementary Spanish II

AND

AGEE Required Elective

Earn at least 6 credits from the following:

- HUM115 - Critical Thinking
- PSY241 - Developmental Psychology

Other Major Requirements

Pre-Major Required Electives

Type
Completion Requirement

Pre Major Required Electives

Fulfill ALL of the following requirements:

Complete ANY of the following Courses:

- BIO163 - Basic Anatomy & Physiology
- BIO168 - Anatomy and Physiology I

AND

Earn at least 8 credits from the following:

- BIO275 - Microbiology
- CHM130 - General, Organic, & Biochemistry
- CHM130A - General, Organic, & Biochemistry Lab

Other

CIS Requirement

Type
Completion Requirement

CIS Requirement

Earn at least 3 credits from the following:

- CIS110 - Introduction to Computers

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Associate in Arts - Pre-Dental
Total Degree Map Credits
63
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	8	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** BIO168 - Anatomy and Physiology I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** CHM130 - General, Organic, & Biochemistry
- **AND** CHM130A - General, Organic, & Biochemistry Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- PSY150 - General Psychology
- **AND** BIO275 - Microbiology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** SOC210 - Introduction to Sociology
- **AND** HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	7	0

Year	Semester	Actual	Progress

Requirement Select

- BIO111 - General Biology I
- **AND** SOC225 - Social Diversity

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	7	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** PSY241 - Developmental Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- ART111 - Art Appreciation
- **AND** POL120 - American Government
- **AND** SOC213 - Sociology of the Family

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- PHI240 - Introduction to Ethics
- **AND** HIS112 - World Civilizations II
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0

Total Minor Credits	Total Elective Credits
0	0

Learning Outcomes

Learning Outcomes

Communicate effectively through writing, reading, speaking, and listening through the demonstration of information literacy.

Analyze problems and make logical conclusions.

Demonstrate quantitative competencies.

Demonstrate technology skills.

Transfer successfully the entire core into a bachelor’s degree program at any state university in North Carolina to which they are accepted, as well as many other universities and colleges in the United States. Further, students that go beyond the transfer general education component and complete an AA degree or AS degree should be able to transfer as a junior (3rd year) level student.

A10100E - Associate in Arts - Pre EMS

Program Overview

Curriulum Description

The Associate in Arts degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). The CAA enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

Department(s)

Associate in Arts

Credential

AA - Associate in Arts

Program Code

A10100E

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title
College Navigator

Name
Melissa Tenpenny

Phone
828-395-1606

Email
mtenpenny@isothermal.edu

Minimum Required Credit Hours
62

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

English Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities/Fine Arts

Type
Completion Requirement

Humanities/Fine Arts

Fulfill ALL of the following requirements:

Required Humanities

Earn at least 6 credits from the following:

- COM231 - Public Speaking
- PHI240 - Introduction to Ethics

AND

Humanities/Fine Arts

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues

Social Science

Type
Completion Requirement

UGETC - Social Science

Fulfill ALL of the following requirements:

Required Social Science

Earn at least 6 credits from the following:

- PSY150 - General Psychology
- SOC210 - Introduction to Sociology

AND

Social Science

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government

Math

Type

Completion Requirement

Math Requirement

Earn at least 3 credits from the following:

- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Natural Sciences

Type

Completion Requirement

Take 1 of 4 groups

Fulfill ANY of the following requirements:

Earn at least 4 credits from the following:

- BIO110 - Principles of Biology

OR

Earn at least 4 credits from the following:

- BIO111 - General Biology I

OR

Earn at least 4 credits from the following:

- CHM151 - General Chemistry I

OR

Earn at least 4 credits from the following:

- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Major Requirements

Additional Gen. Ed. Electives

Type

Completion Requirement

Earn at least 8 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO112 - General Biology II
- BIO140 - Environmental Biology
- BIO140A - Environmental Biology Lab
- CHM151 - General Chemistry I
- CHM152 - General Chemistry II
- CIS115 - Introduction to Programming and Logic
- ECO251 - Principles of

Microeconomics
- ECO252 - Principles of Macroeconomics
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II
- MAT273 - Calculus III
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab
- PHY151 - College Physics I
- PHY152 - College Physics II
- PHY251 - General Physics I
- PHY252 - General Physics II
- POL120 - American Government
- PSY237 - Social Psychology
- PSY281 - Abnormal Psychology
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- SOC213 - Sociology of the Family
- SOC220 - Social Problems
- SOC225 - Social Diversity
- SPA111 - Elementary Spanish I
- SPA112 - Elementary Spanish II

Earn at least 6 credits from the following:
- HUM115 - Critical Thinking
- PSY241 - Developmental Psychology

Other Major Requirements

Pre-Major Required Electives

Type
Completion Requirement

Pre Major Required Electives

Earn at least 3 credits from the following:
- BIO155 - Nutrition
- BIO275 - Microbiology
- HEA110 - Personal Health/Wellness

Earn at least 8 credits from the following:
- BIO168 - Anatomy and Physiology I
- BIO169 - Anatomy and Physiology II

Other

CIS Requirement

Type
Completion Requirement

CIS Requirement

Earn at least 3 credits from the following:
- CIS110 - Introduction to Computers

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Associate in Arts - Pre-EMS
Total Degree Map Credits
62
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	8	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** BIO168 - Anatomy and Physiology I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** BIO169 - Anatomy and Physiology II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- PSY150 - General Psychology
- **AND** BIO275 - Microbiology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** HUM115 - Critical Thinking
- **AND** PSY241 - Developmental Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	7	0

Requirement Select

- SOC210 - Introduction to Sociology
- **AND** CHM151 - General Chemistry I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	8	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** CHM152 - General Chemistry II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	7	0

Requirement Select

- BIO111 - General Biology I
- **AND** POL120 - American Government

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- PHI240 - Introduction to Ethics
- **AND** ART111 - Art Appreciation
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Transfer successfully the entire core into a bachelor's degree program at any state university in North Carolina to which they are accepted, as well as many other universities and colleges in the United States. Further, students that go beyond the transfer general education component and complete an AA degree or AS degree should be able to transfer as a junior (3rd year) level student.

Learning Outcomes

Learning Outcomes

Communicate effectively through writing, reading, speaking, and listening through the demonstration of information literacy.

Analyze problems and make logical conclusions.

Demonstrate quantitative competencies.

Demonstrate technology skills.

A10100HT - Associate in Arts - Health Transfer

Program Overview

Curriulum Description

The Associate in Arts degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). The CAA enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

Department(s)

Associate in Arts

Credential

AA - Associate in Arts

Program Code

A10100HT

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title

College Navigator

Name

Melissa Tenpenny

Phone

828-395-1606

Email

mtenpenny@isothermal.edu

Minimum Required Credit Hours

61

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

English Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities/Fine Arts

Type

Completion Requirement

Humanities/Fine Arts

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues

Earn at least 6 credits from the following:

- COM231 - Public Speaking
- PHI240 - Introduction to Ethics

Social Science

Type
Completion Requirement

Social Science

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government

Earn at least 6 credits from the following:

- PSY150 - General Psychology
- SOC210 - Introduction to Sociology

Math

Type
Completion Requirement

Math Requirement

Earn at least 3 credits from the following:

- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Natural Sciences

Type
Completion Requirement

Take 1 of 4 groups

Fulfill ANY of the following requirements:

Earn at least 4 credits from the following:

- BIO110 - Principles of Biology

OR

Earn at least 4 credits from the following:

- BIO111 - General Biology I

OR

Earn at least 4 credits from the following:

- CHM151 - General Chemistry I

OR

Earn at least 4 credits from the following:

- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Major Requirements

Additional Gen. Ed. Electives

Type
Completion Requirement

Earn at least 11 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO112 - General Biology II
- BIO140 - Environmental Biology
- BIO140A - Environmental Biology Lab
- CHM151 - General Chemistry I
- CHM152 - General Chemistry II
- CIS115 - Introduction to Programming and Logic
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II
- MAT273 - Calculus III
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab
- PHY151 - College Physics I
- PHY152 - College Physics II
- PHY251 - General Physics I
- PHY252 - General Physics II
- POL120 - American Government
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- SOC213 - Sociology of the Family
- SOC220 - Social Problems
- SOC225 - Social Diversity
- SPA111 - Elementary Spanish I
- SPA112 - Elementary Spanish II

Earn at least 3 credits from the following:

- HUM115 - Critical Thinking

Other Major Requirements

Pre-Major Required Electives

Type
Completion Requirement

Pre Major Required Electives

Earn at least 11 credits from the following:

- BIO155 - Nutrition
- BIO163 - Basic Anatomy & Physiology
- BIO168 - Anatomy and Physiology I
- BIO169 - Anatomy and Physiology II

- BIO275 - Microbiology
- CHM130 - General, Organic, & Biochemistry
- CHM130A - General, Organic, & Biochemistry Lab
- HEA110 - Personal Health/Wellness

Other

CIS Requirement

Type
Completion Requirement

CIS Requirement

Earn at least 3 credits from the following:

- CIS110 - Introduction to Computers

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Associate in Arts - Health Transfer
Total Degree Map Credits
61
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	8	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** BIO168 - Anatomy and Physiology I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** BIO169 - Anatomy and Physiology II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- PSY150 - General Psychology
- **AND** BIO275 - Microbiology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** HUM115 - Critical Thinking
- **AND** PSY241 - Developmental Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	7	0

Requirement Select

- CHM151 - General Chemistry I
- **AND** SOC225 - Social Diversity

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	7	0

Requirement Select

- SOC210 - Introduction to Sociology
- **AND** CHM152 - General Chemistry II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	7	0

Requirement Select

- POL120 - American Government
- **AND** MAT152 - Statistical Methods I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- PHI240 - Introduction to Ethics
- **AND** CIS110 - Introduction to Computers
- **AND** ART111 - Art Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Communicate effectively through writing, reading, speaking, and listening through the demonstration of information literacy.

Analyze problems and make logical conclusions.

Demonstrate quantitative competencies.

Demonstrate technology skills.

Transfer successfully the entire core into a bachelor’s degree program at any state university in North Carolina to which they are accepted, as well as many other universities and colleges in the United States. Further, students that go beyond the transfer general education component and complete an AA degree or AS degree should be able to transfer as a junior (3rd year) level student.

A10100N - Associate in Arts - Pre Nursing

Program Overview

Curriulum Description

The Associate in Arts degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). The CAA enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

Department(s)

Associate in Arts

Credential

AA - Associate in Arts

Program Code

A10100N

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title

College Navigator

Name

Melissa Tenpenny

Phone

828-395-1606

Email

mtenpenny@isothermal.edu

Minimum Required Credit Hours

61

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

English Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities/Fine Arts

Type

Completion Requirement

Humanities/Fine Arts

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues

Earn at least 6 credits from the following:

- COM231 - Public Speaking
- PHI240 - Introduction to Ethics

Social Science

Type
Completion Requirement

Social Science

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government

Earn at least 6 credits from the following:

- PSY150 - General Psychology
- SOC210 - Introduction to Sociology

Math

Type
Completion Requirement

Math Requirement

Earn at least 3 credits from the following:

- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Natural Sciences

Type
Completion Requirement

Take 1 of 4 groups

Fulfill ANY of the following requirements:

Earn at least 4 credits from the following:

- BIO110 - Principles of Biology

OR

Earn at least 4 credits from the following:

- BIO111 - General Biology I

OR

Earn at least 4 credits from the following:

- CHM151 - General Chemistry I

OR

Earn at least 4 credits from the following:

- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Major Requirements

Additional Gen. Ed. Electives

Type
Completion Requirement

Earn at least 8 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO112 - General Biology II
- BIO140 - Environmental Biology
- BIO140A - Environmental Biology Lab
- CHM151 - General Chemistry I
- CHM152 - General Chemistry II
- CIS115 - Introduction to Programming and Logic
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II
- MAT273 - Calculus III
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab
- PHY151 - College Physics I
- PHY152 - College Physics II
- PHY251 - General Physics I
- PHY252 - General Physics II
- POL120 - American Government
- PSY237 - Social Psychology
- PSY281 - Abnormal Psychology
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- SOC213 - Sociology of the Family
- SOC220 - Social Problems
- SOC225 - Social Diversity
- SPA111 - Elementary Spanish I
- SPA112 - Elementary Spanish II

Earn at least 6 credits from the following:

- HUM115 - Critical Thinking
- PSY241 - Developmental Psychology

Other Major Requirements

Pre-Major Required Electives

Type
Completion Requirement

Pre Major Required Electives

Earn at least 11 credits from the following:

- BIO168 - Anatomy and Physiology I
- BIO169 - Anatomy and Physiology II
- BIO275 - Microbiology

Other

CIS Requirement

Type
Completion Requirement

CIS Requirement

Earn at least 3 credits from the following:

- CIS110 - Introduction to Computers

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Associate in Arts - Pre-Nursing
Total Degree Map Credits
61
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	8	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** BIO168 - Anatomy and Physiology I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** BIO169 - Anatomy and Physiology II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- PSY150 - General Psychology
- **AND** BIO275 - Microbiology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** HUM115 - Critical Thinking
- **AND** PSY241 - Developmental Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	7	0

Requirement Select

- CHM151 - General Chemistry I
- **AND** SOC225 - Social Diversity

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	7	0

Requirement Select

- SOC210 - Introduction to Sociology
- **AND** CHM152 - General Chemistry II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	7	0

Requirement Select

- POL120 - American Government
- **AND** MAT152 - Statistical Methods I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- PHI240 - Introduction to Ethics
- **AND** ART111 - Art Appreciation
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Communicate effectively through writing, reading, speaking, and listening through the demonstration of information literacy.

Analyze problems and make logical conclusions.

Demonstrate quantitative competencies.

Demonstrate technology skills.

Transfer successfully the entire core into a bachelor’s degree program at any state university in North Carolina to which they are accepted, as well as many other universities and colleges in the United States. Further, students that go beyond the transfer general education component and complete an AA degree or AS degree should be able to transfer as a junior (3rd year) level student.

A1010T - Associate in Arts in Teacher Preparation (AATP)

Program Overview

Curriulum Description

The Associate in Arts in Teacher Preparation degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

The Comprehensive Articulation Agreement (CAA) and the Independent Comprehensive Articulation Agreement (ICAA) enables North Carolina community college graduates of two-year associate in arts programs who are admitted to constituent institutions of The University of North Carolina and to Signatory Institutions of North Carolina Independent Colleges and Universities to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.7 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

Department(s)
Associate in Arts

Credential
AA - Associate in Arts

Program Code
A1010T

Financial Aid Eligible
Yes

Program Contacts

Title
Faculty Mentor

Name
Alice McCluney

Phone
828-395-1444

Email
amccluney@isothermal.edu

Title
College Navigator

Name
Tina Porter

Phone
828-395-1621

Email
tporter@isothermal.edu

Minimum Required Credit Hours
62

Degree Requirements

Simple Requirements

Core Requirements

English Composition - Take 6 credits

Type
Completion Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Communications and Humanities

Type
Completion Requirement

Minimum Subjects

Minimum of 2 subjects from picklist.

Earn at least 9 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- COM231 - Public Speaking
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics

Social/Behavioral Science

Type
Completion Requirement

Minimum Subjects

Minimum of 2 subjects

Earn at least 6 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- SOC210 - Introduction to Sociology

Math Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Natural Science Requirement

Type
Completion Requirement

Take 1 of 4 groups

Fulfill ANY of the following requirements:

Earn at least 4 credits from the following:

No selection provided

OR

Earn at least 4 credits from the following:

- BIO110 - Principles of Biology

OR

Earn at least 4 credits from the following:

- BIO111 - General Biology I

OR

Earn at least 4 credits from the following:

- CHM151 - General Chemistry I

OR

Earn at least 4 credits from the following:

- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Additional GenEd Requirement

Type

Completion Requirement

Take 2 groups

Fulfill ALL of the following requirements:

Earn at least 3 credits from the following:

- SOC225 - Social Diversity

AND

Earn at least 14 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO112 - General Biology II
- BIO140 - Environmental Biology
- BIO140A - Environmental Biology Lab
- CHM151 - General Chemistry I
- CHM152 - General Chemistry II
- CIS110 - Introduction to Computers
- CIS115 - Introduction to Programming and Logic
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- HUM110 - Technology and Society
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II
- MAT273 - Calculus III
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- PHY151 - College Physics I
- PHY152 - College Physics II
- PHY251 - General Physics I
- PHY252 - General Physics II
- POL120 - American Government
- PSY150 - General Psychology

- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems
- SPA111 - Elementary Spanish I
- SPA112 - Elementary Spanish II

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Education Requirement

Type
Completion Requirement

Earn at least 14 credits from the following:
- EDU187 - Teaching and Learning for All
- EDU216 - Foundations of Education
- EDU250 - Teacher Licensure Preparation
- EDU279 - Literacy Development and Instruction

Degree Maps

Degree Map Name
Associate in Arts - Teacher Preparation
Total Degree Map Credits
62
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** EDU216 - Foundations of Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	4	0

Requirement Select

- EDU187 - Teaching and Learning for All

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** ART111 - Art Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- COM231 - Public Speaking
- **AND** HIS111 - World Civilizations I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	4	0

Requirement Select

- EDU279 - Literacy Development and Instruction

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	6	0

Requirement Select

- SOC225 - Social Diversity
- **AND** MUS110 - Music Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	7	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** HIS132 - American History II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	6	0

Requirement Select

- EDU250 - Teacher Licensure Preparation
- **AND** ENG231 - American Literature I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- ENG232 - American Literature II
- **AND** HIS112 - World Civilizations II
- **AND** PHI240 - Introduction to Ethics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Produce writing that is clear, precise, organized, incisive, and correct (according to the guidelines of Standard Written English) for a variety of purposes and audiences - Writing

Read actively and analytically at the college level and synthesize and apply information across disciplines - Reading

Speak in a manner that is clear, precise, coherent, perceptive, audience-aware, and correct (according to the guidelines of Standard Written English) in both small and large group settings - Speaking

Learning Outcomes

Learning Outcomes

Identify the knowledge, skills, roles, and responsibilities of an effective, inclusive, and culturally-responsive educator as defined by state and national professional teaching standards

Demonstrate thinking that is clear, accurate, precise, relevant, deep, broad, and fair, while analyzing, synthesizing, and evaluating - Critical Thinking

A1030N - Associate in General Education-Nursing

Program Overview

Curriulum Description

The Associate in General Education (AGE)-Nursing is designed for students who wish to begin their study toward the Associate in Nursing degree and a Baccalaureate degree in Nursing as based on Blocks 1 through 3 of the Uniform Articulation Agreement between the University of North Carolina's Registered Nurse (RN) to Bachelor of Science in Nursing (BSN) programs and the North Carolina Community College Associate Degree Nursing Programs which was approved by the State Board of Community Colleges and the UNC Board of Governors in February 2015. The AGE-Nursing shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses.

A student who completes an Associate in Applied Science (AAS) in Nursing with a GPA of at least 2.0 and a grade of C or better in the AGE-Nursing courses listed below and who holds a current unrestricted license as a Registered Nurse in North Carolina will have fulfilled the UNC institutions lower-division general education requirements as well as nursing program entry requirements. However, because nursing program admissions are competitive, no student is guaranteed admission to the program of his or her choice.

Department(s)

Associate in General Education

Credential

AGE – Associate in General Education

Program Code

A1030N

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title

College Navigator

Name

Melissa Tenpenny

Phone

828-395-1606

Email

mtenpenny@isothermal.edu

Minimum Required Credit Hours

60

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities/Fine Arts Requirement

Type

Completion Requirement

Take 2 groups

Fulfill ALL of the following requirements:

Earn at least 6 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- HUM115 - Critical Thinking
- MUS110 - Music Appreciation
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics

AND

Earn at least 3 credits from the following:

- ENG231 - American Literature I
- ENG232 - American Literature II

Social/Behavioral Sciences

Type

Completion Requirement

Take 3 groups

Fulfill ALL of the following requirements:

Earn at least 9 credits from the following:

- PSY150 - General Psychology
- PSY241 - Developmental Psychology
- SOC210 - Introduction to Sociology

AND

Earn at least 3 credits from the following:

- SOC213 - Sociology of the Family
- SOC220 - Social Problems
- SOC225 - Social Diversity

AND

Earn at least 3 credits from the following:

- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II

Major Requirements

Natural Science Requirement

Type

Completion Requirement

Natural Science Requirements

Fulfill ALL of the following requirements:

Earn at least 8 credits from the following:

- BIO168 - Anatomy and Physiology I
- BIO169 - Anatomy and Physiology II

AND

Earn at least 4 credits from the following:

- BIO275 - Microbiology

Natural Science Elective

Type

Completion Requirement

Take 1 of 2 groups

Fulfill ANY of the following requirements:

Earn at least 4 credits from the following:

- CHM151 - General Chemistry I

OR

Earn at least 4 credits from the following:

- CHM130 - General, Organic, & Biochemistry
- CHM130A - General, Organic, & Biochemistry Lab

Math Requirement

Type
Completion Requirement

Take 2 groups

Fulfill ALL of the following requirements:

Earn at least 4 credits from the following:

- MAT152 - Statistical Methods I

AND

Earn at least 3 credits from the following:

- MAT143 - Quantitative Literacy
- MAT171 - Precalculus Algebra

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Other Required Hours

Type
Completion Requirement

Maximum 7 credits

Earn at least 6 credits from the following:

- ART111 - Art Appreciation
- COM231 - Public Speaking
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- HEA110 - Personal Health/Wellness
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- HUM115 - Critical Thinking
- MAT172 - Precalculus Trigonometry
- MUS110 - Music Appreciation
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- POL120 - American Government
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Additional Comments:
Maximum 7 credits

Degree Maps

Degree Map Name
Associate in General Education Nursing
Total Degree Map Credits
0
Degree Map Effective Catalog Year
2025 -

Degree Map Narrative

A1030N (2025-2026) Associate in General EducationNursing

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Communicate effectively through writing, reading, speaking, and listening through the demonstration of information literacy.

Analyze problems and make logical conclusions.

Demonstrate quantitative competencies.

Enter into an Associate Degree Nursing or Bachelor of Science in Nursing program.

State anticipated academic goals related to the nursing profession.

A10400 - Associate in Science

Program Overview

Curriulum Description

The Associate in Science degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic computer use.

Courses are approved for transfer through the Comprehensive Articulation Agreement (CAA). The CAA enables North Carolina community college graduates of two-year associate in science programs who are admitted to constituent institutions of The University of North Carolina to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.0 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

Department(s)
Associate in Science

Credential
AS - Associate in Science

Program Code
A10400

Program Can be Earned 100% Online
Yes

Financial Aid Eligible
Yes

Program Contacts

Title
College Navigator

Name
The Patriot Hub

Phone
828-395-1436

Email
advising@isothermal.edu

Minimum Required Credit Hours
60

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 6 credits from the following:
- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities/Fine Arts Requirement

Type
Completion Requirement

Minimum Subject

Minimum of 2 subjects

Earn at least 6 credits from the following:
- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- COM231 - Public Speaking
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics

Social Science Requirement

Type
Completion Requirement

Minimum Subject

Minimum of 2 subjects

Earn at least 6 credits from the following:
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- SOC210 - Introduction to Sociology

Math Requirement

Type
Completion Requirement

Earn at least 8 credits from the following:

- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II

Major Requirements

Natural Science Requirement

Type
Completion Requirement

Take 1 of 7 groups

Fulfill ANY of the following requirements:

Earn at least 8 credits from the following:

No selection provided

OR

Earn at least 8 credits from the following:

No selection provided

OR

Earn at least 8 credits from the following:

- BIO111 - General Biology I
- BIO112 - General Biology II

OR

Earn at least 8 credits from the following:

- CHM151 - General Chemistry I
- CHM152 - General Chemistry II

OR

Earn at least 8 credits from the following:

- PHY151 - College Physics I
- PHY152 - College Physics II

OR

Earn at least 8 credits from the following:

- PHY251 - General Physics I
- PHY252 - General Physics II

OR

Earn at least 8 credits from the following:

- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab
- BIO110 - Principles of Biology

AGEE Electives

Type
Completion Requirement

Earn at least 11 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- BIO111 - General Biology I
- BIO112 - General Biology II
- BIO140 - Environmental Biology
- BIO140A - Environmental Biology Lab
- CHM151 - General Chemistry I
- CHM152 - General Chemistry II
- CIS115 - Introduction to Programming and Logic

- COM231 - Public Speaking
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II
- MAT273 - Calculus III
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab
- PHY151 - College Physics I
- PHY152 - College Physics II
- PHY251 - General Physics I
- PHY252 - General Physics II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems
- SOC225 - Social Diversity
- SPA111 - Elementary Spanish I
- SPA112 - Elementary Spanish II

Other Major Requirements

Pre-Major Electives

Type
Completion Requirement

Earn at least 11 credits from the following:

- ACC120 - Principles of Financial Accounting
- ACC121 - Principles of Managerial Accounting
- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- BIO111 - General Biology I
- BIO112 - General Biology II
- BIO140 - Environmental Biology
- BIO140A - Environmental Biology Lab
- BIO155 - Nutrition
- BIO163 - Basic Anatomy & Physiology
- BIO168 - Anatomy and Physiology I
- BIO169 - Anatomy and Physiology II
- BIO275 - Microbiology
- BUS110 - Introduction to Business
- BUS115 - Business Law I
- BUS137 - Principles of Management
- CHM130 - General, Organic, & Biochemistry
- CHM130A - General, Organic, &

Biochemistry Lab
- CHM151 - General Chemistry I
- CHM152 - General Chemistry II
- CIS115 - Introduction to Programming and Logic
- CJC111 - Introduction to Criminal Justice
- CJC113 - Juvenile Justice
- CJC121 - Law Enforcement Operations
- CJC141 - Corrections
- CJC212 - Ethics & Community Relations
- COM231 - Public Speaking
- CSC134 - C++ Programming
- CSC139 - Visual BASIC Programming
- CSC151 - JAVA Programming
- CSC239 - Advanced Visual BASIC Programming
- CSC251 - Advanced JAVA Programming
- CTS115 - Information Systems Business Concepts
- DFT170 - Engineering Graphics
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- EDU131 - Child, Family, and Community
- EDU144 - Child Development I
- EDU145 - Child Development II
- EDU216 - Foundations of Education
- EDU221 - Children With Exceptionalities
- EGR150 - Introduction to Engineering
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HEA110 - Personal Health/Wellness
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- HSE110 - Introduction to Human Services
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM180 - International Cultural Exploration
- HUM230 - Leadership Development
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II
- MAT273 - Calculus III
- MAT280 - Linear Algebra
- MAT285 - Differential Equations
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PED110 - Fit and Well for Life
- PED120 - Walking for Fitness
- PED219 - Disc Golf
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- PHY151 - College Physics I
- PHY152 - College Physics II
- PHY251 - General Physics I
- PHY252 - General Physics II
- POL120 - American Government
- PSY150 - General Psychology
- PSY231 - Forensic Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- REL110 - World Religions

- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- SOC210 - Introduction to Sociology
- SOC225 - Social Diversity
- SOC220 - Social Problems
- SPA111 - Elementary Spanish I
- SPA112 - Elementary Spanish II
- SPA181 - Spanish Lab 1
- SPA182 - Spanish Lab 2
- EDU250 - Teacher Licensure Preparation

Other

CIS Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- CIS110 - Introduction to Computers

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Associate in Science
Total Degree Map Credits
62
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	8	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** MAT171 - Precalculus Algebra

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** MAT172 - Precalculus Trigonometry
- **AND** EGR150 - Introduction to Engineering

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- CHM151 - General Chemistry I
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	8	0

Requirement Select

- CHM152 - General Chemistry II
- **AND** MAT271 - Calculus I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	7	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** CSC134 - C++ Programming

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- ART111 - Art Appreciation
- **AND** HIS111 - World Civilizations I
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	7	0

Requirement Select

- PHY151 - College Physics I
- **AND** ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	7	0

Requirement Select

- PHY152 - College Physics II
- **AND** DFT170 - Engineering Graphics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Communicate effectively through writing, reading, speaking, and listening through the demonstration of information literacy.

Analyze problems and make logical conclusions.

Demonstrate quantitative competencies.

Demonstrate technology skills.

Transfer successfully the entire core into a bachelor’s degree program at any state university in North Carolina to which they are accepted, as well as many other universities and colleges in the United States. Further, students that go beyond the transfer general education component and complete an AA degree or AS degree should be able to transfer as a junior (3rd year) level student.

A1040T - Associate in Science in Teacher Preparation (ASTP)

Program Overview

Curriulum Description

The Associate in Science in Teacher Preparation degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of college transfer courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic computer use.

The Comprehensive Articulation Agreement (CAA) and the Independent Comprehensive Articulation Agreement (ICAA) enables North Carolina community college graduates of two-year associate in science programs who are admitted to constituent institutions of The University of North Carolina and to Signatory Institutions of North Carolina Independent Colleges and Universities to transfer with junior status.

Community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.7 on a 4.0 scale in order to transfer with a junior status. Courses may also transfer through bilateral agreements between institutions.

Department(s)

Associate in Science

Credential

AS - Associate in Science

Program Code

A1040T

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

Name
Alice McCluney

Phone
(828)395-1444

Email
amccluney@isothermal.edu

Title
College Navigator

Name
Melissa Tenpenny

Phone
828-395-4324

Email
mtenpenny@isothermal.edu

Minimum Required Credit Hours
60

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Communications/Humanities Requirement

Type
Completion Requirement

Minimum Subject

Minimum of 2 subjects

Earn at least 6 credits from the following:

- COM231 - Public Speaking
- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics

Social/Behavioral Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II

- POL120 - American Government
- PSY150 - General Psychology
- SOC210 - Introduction to Sociology

Math Requirement

Type
Completion Requirement

Earn at least 8 credits from the following:
- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II

Major Requirements

Natural Science Requirement

Type
Completion Requirement

Take 1 of 5 groups

Fulfill ANY of the following requirements:

Earn at least 8 credits from the following:
- CHM151 - General Chemistry I
- CHM152 - General Chemistry II

OR

Earn at least 8 credits from the following:
- PHY151 - College Physics I
- PHY152 - College Physics II

OR

Earn at least 8 credits from the following:
- PHY251 - General Physics I
- PHY252 - General Physics II

OR

Earn at least 8 credits from the following:
- BIO110 - Principles of Biology
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

OR

Earn at least 8 credits from the following:
- BIO111 - General Biology I
- BIO112 - General Biology II

Other Major Requirements

Additional GenEd Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- SOC225 - Social Diversity

Additional GenEd Electives

Type
Completion Requirement

Earn at least 11 credits from the following:
- ART111 - Art Appreciation
- ART114 - Art History Survey I

- ART115 - Art History Survey II
- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO112 - General Biology II
- BIO140 - Environmental Biology
- BIO140A - Environmental Biology Lab
- CHM151 - General Chemistry I
- CHM152 - General Chemistry II
- CIS110 - Introduction to Computers
- CIS115 - Introduction to Programming and Logic
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- HUM110 - Technology and Society
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II
- MAT273 - Calculus III
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab
- PHY151 - College Physics I
- PHY152 - College Physics II
- PHY251 - General Physics I
- PHY252 - General Physics II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems
- SPA111 - Elementary Spanish I
- SPA112 - Elementary Spanish II

Other

ACA Requirement

Type
Completion Requirement

Complete ALL of the following Courses:

- ACA122 - Transfer & Career Success

Education Requirement

Type
Completion Requirement

Earn at least 14 credits from the following:

- EDU187 - Teaching and Learning for All
- EDU216 - Foundations of Education
- EDU250 - Teacher Licensure

Preparation
- EDU279 - Literacy Development and Instruction

Degree Maps

Degree Map Name
Associate in Science Teacher Prepparation
Total Degree Map Credits
62
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** EDU216 - Foundations of Education

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select
- MAT152 - Statistical Methods I
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select
- ENG112 - Writing and Research in the Disciplines
- **AND** ART111 - Art Appreciation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- COM231 - Public Speaking
- **AND** HIS111 - World Civilizations I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	4	0

Requirement Select

- EDU187 - Teaching and Learning for All

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	4	0

Requirement Select

- EDU279 - Literacy Development and Instruction

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	6	0

Requirement Select

- SOC225 - Social Diversity
- **AND** MUS110 - Music Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	7	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** HIS132 - American History II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	6	0

Requirement Select

- EDU250 - Teacher Licensure Preparation
- **AND** ENG231 - American Literature I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- ENG232 - American Literature II
- **AND** HIS112 - World Civilizations II
- **AND** PHI240 - Introduction to Ethics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Identify the knowledge, skills, roles, and responsibilities of an effective, inclusive, and culturally-responsive educator as defined by state and national professional teaching standards.

Demonstrate thinking that is clear, accurate, precise, relevant, deep, broad, and fair, while analyzing, synthesizing, and evaluating---Critical Thinking.

Produce writing that is clear, precise, organized, incisive, and correct (according to the guidelines of Standard Written English) for a variety of purposes and audiences---Writing.

Apply college-level mathematical concepts and methods to understand, analyze, and communicate in quantitative terms---Quantitative Literacy.

Effectively use technology as a tool for research, problem-solving, communication, and career enrichment--- Technology Skills.

A10500 - Associate in Engineering

Program Overview

Curriulum Description

The Associate in Engineering (AE) degree shall be granted for a planned program of study consisting of a minimum of 60 semester hours of credit (SHC) of courses. Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic computer use.

The degree plan includes required general education and prerequisite courses that are acceptable to all state funded Bachelor of Engineering programs. Students who follow the degree progression plan will meet the entrance requirements at all of the North Carolina public Bachelor of Science Engineering programs. Associate in Engineering graduates may then apply to any of these programs without taking additional and sometimes duplicative courses. Admission to Engineering programs is highly competitive and admission is not guaranteed.

To be eligible for the transfer of credits under the AE to the Bachelor of Science in Engineering Articulation Agreement, community college graduates must obtain a grade of "C" or better in each course and an overall GPA of at least 2.5 on a 4.0 scale.

GENERAL EDUCATION (42 SHC) The general education common course pathway includes study in the areas of English composition; humanities and fine arts; social and behavioral sciences; natural sciences and mathematics. UNIVERSAL GENERAL EDUCATION TRANSFER COMPONENT (Universal General Education Transfer Component (UGETC) courses will transfer for equivalency credit to all UNC institutions.) *Exceptions (i.e. courses which are not classified as UGETC) are italicized.

Department(s)
Associate in Engineering

Credential
AE – Associate in Engineering

Program Code
A10500

Financial Aid Eligible
Yes

Program Contacts

Title
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Title
College Navigator

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Minimum Required Credit Hours
60

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 6 credits from the following:
- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities/Fine Arts

Type
Completion Requirement

Earn at least 3 credits from the following:
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions

Earn at least 3 credits from the following:
- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- COM231 - Public Speaking
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz

Social/Behavioral Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics

Earn at least 3 credits from the following:

- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- SOC210 - Introduction to Sociology

Math Requirement

Type
Completion Requirement

Earn at least 12 credits from the following:

- MAT271 - Calculus I
- MAT272 - Calculus II
- MAT273 - Calculus III

Natural Science Requirement

Type
Completion Requirement

Earn at least 12 credits from the following:

- CHM151 - General Chemistry I
- PHY251 - General Physics I
- PHY252 - General Physics II

Major Requirements

Other GenEd

Type
Completion Requirement

Earn at least 3 credits from the following:

- BIO111 - General Biology I
- CHM152 - General Chemistry II
- COM231 - Public Speaking
- ECO252 - Principles of Macroeconomics
- PHI240 - Introduction to Ethics

Other Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 3 credits from the following:

- ACA122 - Transfer & Career Success
- EGR150 - Introduction to Engineering

Other

Other Required Hours

Type
Completion Requirement

Earn at least 12 credits from the following:

- BIO111 - General Biology I
- CHM152 - General Chemistry II
- CHM251 - Organic Chemistry I
- CHM252 - Organic Chemistry II
- COM231 - Public Speaking
- CSC134 - C++ Programming
- CSC151 - JAVA Programming
- DFT170 - Engineering Graphics
- ECO252 - Principles of Macroeconomics
- MAT280 - Linear Algebra
- MAT285 - Differential Equations
- PED110 - Fit and Well for Life

Degree Maps

Degree Map Name
Associate in Engineering
Total Degree Map Credits
61
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	4	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	5	0

Requirement Select
- ENG112 - Writing and Research in the Disciplines
- **AND** EGR150 - Introduction to Engineering

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	10	0

Requirement Select
- CSC134 - C++ Programming
- **AND** CHM151 - General Chemistry I
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	11	0

Requirement Select

- MAT271 - Calculus I
- **AND** CHM152 - General Chemistry II
- **AND** HIS112 - World Civilizations II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	3	0

Requirement Select

- ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	3	0

Requirement Select

- PHI240 - Introduction to Ethics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	8	0

Requirement Select

- MAT272 - Calculus II
- **AND** PHY251 - General Physics I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	11	0

Requirement Select

- MAT273 - Calculus III
- **AND** PHY252 - General Physics II
- **AND** MAT285 - Differential Equations

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	3	0

Requirement Select

- MUS110 - Music Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	3	0

Requirement Select

- DFT170 - Engineering Graphics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Demonstrate awareness and understanding of the Engineering field and potential careers

Demonstrate logic, quantitative and technology skills in the analysis of problems and generation of potential solutions

Communicate effectively through writing, reading, speaking, listening through the demonstration of information literacy

Transfer successfully the core into a bachelor's degree program at any state university in North Carolina to which they are accepted, as well as most other universities and colleges in the United States. Further, students that go beyond the transfer general education component and complete the AE degree should be able to transfer as a junior (3rd year) level student

A15100 - Agribusiness Technology

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. The objective is the development of a workforce knowledgeable in sustainable agriculture practices. Students will learn the fundamentals of agriculture, focusing on crop production and business. Emphasis is placed on entrepreneurial and field training. Students will also learn the basic principles of our economic system and government policies and programs relating to agriculture. Graduates should qualify for a variety of jobs in agricultural businesses such as equipment, feed, and agricultural supply sales; store management; farm operations; wholesale and retail produce management; nursery operations; and environmental and agricultural education.

Agribusiness Technology: A program that prepares individuals to manage agricultural businesses and agriculturally related operations within diversified corporations. Potential course work includes instruction in agriculture, agricultural specialization, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities.

Department(s)

Agribusiness Technology

Credential

AAS – Associate in Applied Science

Program Code

A15100

Financial Aid Eligible

Yes

Program Contacts

Title
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Title
College Navigator

Name
Brandon Burnett

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828-395-1463

Email
bburnett@isothermal.edu

Minimum Required Credit Hours
64

Degree Requirements

Learning Outcomes

Learning Outcomes

Recognize and describe the role of Agribusiness in the U.S. and how it impacts the local community.

Define and describe the difference between Agribusiness and traditional business.

Explain the impact of sustainable agriculture in our environment and our economy.

Describe sustainable land care practices and how they impact soil and water quality.

Students shall be able to complete loan application procedures and explain the basic laws affecting the agriculture industry.

Discuss various economic principles and articulate the impact that those principles have on domestic and global economies.

Explain the role of marketing in Agribusiness Technology and apply core marketing principles to the development of Agribusiness strategy and decision-making process.

A15100B - Agribusiness Technology - General Business

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. The objective is the development of a workforce knowledgeable in sustainable agriculture practices. Students will learn the fundamentals of agriculture, focusing on crop production and business. Emphasis is placed on entrepreneurial and field training. Students will also learn the basic principles of our economic system and government policies and programs relating to agriculture. Graduates should qualify for a variety of jobs in agricultural businesses such as equipment, feed, and agricultural supply sales; store management; farm operations; wholesale and retail produce management; nursery operations; and environmental and agricultural education.

Agribusiness Technology: A program that prepares individuals to manage agricultural businesses and agriculturally related operations within diversified corporations. Potential course work includes instruction in agriculture, agricultural specialization, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities.

Department(s)

Agribusiness Technology

Credential

AAS – Associate in Applied Science

Program Code

A15100B

Financial Aid Eligible

Yes

Program Contacts

Title

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Title

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Minimum Required Credit Hours

64

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirement

Earn at least 3 credits from the following:
- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:
- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Earn at least 3 credits from the following:
- BIO110 - Principles of Biology
- BIO111 - General Biology I
- MAT110 - Mathematical Measurement and Literacy
- MAT121 - Algebra/Trigonometry I
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Social Science Requirement

Earn at least 3 credits from the following:
- ECO252 - Principles of Macroeconomics

Humanities Requirement

Earn at least 3 credits from the following:
- ART111 - Art Appreciation
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Major Requirements

Major Requirements

Type
Completion Requirement

Technical Core

Earn at least 15 credits from the following:
- AGR139 - Introduction to Sustainable Agriculture
- AGR140 - Agricultural Chemicals
- AGR170 - Soil Science
- AGR214 - Agricultural Marketing
- ANS110 - Animal Science

Program Major Requirements

Earn at least 12 credits from the following:
- AGR210 - Agricultural Accounting
- AGR212 - Farm Business Management
- AGR213 - Agricultural Law & Finance
- AGR261 - Agronomy

Earn at least 1 credits from the following:
- WBL110 - World of Work
- WBL111 - Work-Based Learning I

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major requirements

Earn at least 11 credits from the following:

- AGR110 - Agricultural Economics
- BUS125 - Personal Finance
- CIS110 - Introduction to Computers
- HOR150 - Introduction to Horticulture

Concentration Requirements

Earn at least 9 credits from the following:

- BUS110 - Introduction to Business
- BUS137 - Principles of Management
- CSC113 - Artificial Intelligence Fundamentals

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Agribusiness Technology - General Business
Total Degree Map Credits
64
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** AGR170 - Soil Science
- **AND** ANS110 - Animal Science

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	10	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** AGR139 - Introduction to Sustainable Agriculture
- **AND** BIO110 - Principles of Biology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	8	0

Requirement Select

- AGR140 - Agricultural Chemicals
- **AND** HOR150 - Introduction to Horticulture
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** ECO252 - Principles of Macroeconomics
- **AND** BUS137 - Principles of Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	6	0

Requirement Select

- AGR213 - Agricultural Law & Finance
- **AND** CSC113 - Artificial Intelligence Fundamentals

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- AGR210 - Agricultural Accounting
- **AND** AGR261 - Agronomy
- **AND** BUS125 - Personal Finance

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	6	0

Requirement Select

- AGR110 - Agricultural Economics
- **AND** BUS110 - Introduction to Business

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- HUM130 - Myth in Human Culture
- **AND** AGR214 - Agricultural Marketing
- **AND** AGR212 - Farm Business Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Recognize and describe the role of Agribusiness in the U.S. and how it impacts the local community.

Define and describe the difference between Agribusiness and traditional business.

Explain the impact of sustainable agriculture in our environment and our economy.

Describe sustainable land care practices and how they impact soil and water quality.

Students shall be able to complete loan application procedures and explain the basic laws affecting the agriculture industry.

Discuss various economic principles and articulate the impact that those principles have on domestic and global economies.

Explain the role of marketing in Agribusiness Technology and apply core marketing principles to the development of Agribusiness strategy and decision-making process.

A15100H - Agribusiness Technology - Horticulture

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. The objective is the development of a workforce knowledgeable in sustainable agriculture practices. Students will learn the fundamentals of agriculture, focusing on crop production and business. Emphasis is placed on entrepreneurial and field training. Students will also learn the basic principles of our economic system and government policies and programs relating to agriculture. Graduates should qualify for a variety of jobs in agricultural businesses such as equipment, feed, and agricultural supply sales; store management; farm operations; wholesale and retail produce management; nursery operations; and environmental and agricultural education.

Agribusiness Technology: A program that prepares individuals to manage agricultural businesses and agriculturally related operations within diversified corporations. Potential course work includes instruction in agriculture, agricultural specialization, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities.

Department(s)

Agribusiness Technology

Credential

AAS – Associate in Applied Science

Program Code

A15100H

Financial Aid Eligible

Yes

Program Contacts

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Title
College Navigator

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828-395-1463

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bburnett@isothermal.edu

Minimum Required Credit Hours

65

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications

Type
Completion Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Science/Math Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- BIO110 - Principles of Biology
- BIO111 - General Biology I
- MAT110 - Mathematical Measurement and Literacy
- MAT121 - Algebra/Trigonometry I
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ECO252 - Principles of Macroeconomics

Humanities Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Major Requirements

Technical Core

Type
Completion Requirement

Earn at least 15 credits from the following:

- AGR139 - Introduction to Sustainable Agriculture
- AGR140 - Agricultural Chemicals
- AGR170 - Soil Science
- AGR214 - Agricultural Marketing
- ANS110 - Animal Science

Program Major

Type
Completion Requirement

Earn at least 12 credits from the following:
- AGR210 - Agricultural Accounting
- AGR212 - Farm Business Management
- AGR213 - Agricultural Law & Finance
- AGR261 - Agronomy

Earn at least 1 credits from the following:
- WBL110 - World of Work
- WBL111 - Work-Based Learning I

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Earn at least 11 credits from the following:
- AGR110 - Agricultural Economics
- BUS125 - Personal Finance
- CIS110 - Introduction to Computers
- HOR150 - Introduction to Horticulture

Concentration Requirements

Type
Completion Requirement

Earn at least 10 credits from the following:
- AGR145 - Introduction to Small Fruits
- HOR134 - Greenhouse Operations
- HOR168 - Plant Propagation

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Agribusiness Technology - Horticulture
Total Degree Map Credits
66
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** AGR170 - Soil Science
- **AND** ANS110 - Animal Science

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	10	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** AGR139 - Introduction to Sustainable Agriculture
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	8	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** AGR140 - Agricultural Chemicals
- **AND** HOR150 - Introduction to Horticulture

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- HUM130 - Myth in Human Culture
- **AND** BUS125 - Personal Finance
- **AND** HOR134 - Greenhouse Operations

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	6	0

Requirement Select

- AGR213 - Agricultural Law & Finance
- **AND** HOR112 - Landscape Design I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	10	0

Requirement Select

- AGR210 - Agricultural Accounting
- **AND** AGR261 - Agronomy
- **AND** AGR145 - Introduction to Small Fruits

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	1	0

Requirement Select

- WBL111 - Work-Based Learning I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** ECO252 - Principles of Macroeconomics
- **AND** AGR110 - Agricultural Economics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- AGR214 - Agricultural Marketing
- **AND** AGR212 - Farm Business Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0

Total Minor Credits	Total Elective Credits
0	0

Learning Outcomes

Learning Outcomes

Recognize and describe the role of Agribusiness in the U.S. and how it impacts the local community.

Define and describe the difference between Agribusiness and traditional business.

Explain the impact of sustainable agriculture in our environment and our economy.

Describe sustainable land care practices and how they impact soil and water quality.

Students shall be able to complete loan application procedures and explain the basic laws affecting the agriculture industry.

Discuss various economic principles and articulate the impact that those principles have on domestic and global economies.

Explain the role of marketing in Agribusiness Technology and apply core marketing principles to the development of Agribusiness strategy and decision-making process.

A25120 - Business Administration

Program Overview

Curriulum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Department(s)

Business Administration

Credential

AAS – Associate in Applied Science

Program Code

A25120

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

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Minimum Required Credit Hours
65

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirements

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Mathematics Requirement

Earn at least 3 credits from the following:

- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- HUM110 - Technology and Society
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- PHI240 - Introduction to Ethics

Social Science Requirement

Earn at least 3 credits from the following:

- ECO252 - Principles of Macroeconomics

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 12 credits from the following:

- BUS110 - Introduction to Business
- BUS115 - Business Law I
- BUS137 - Principles of Management
- MKT120 - Principles of Marketing

Accounting Requirement

Earn at least 4 credits from the following:

- ACC120 - Principles of Financial Accounting

Computer Requirement

Earn at least 3 credits from the following:

- CIS110 - Introduction to Computers

Economics Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics

Concentration Requirements

Earn at least 12 credits from the following:

- BUS153 - Human Resource Management
- BUS253 - Leadership and Management Skills
- BUS260 - Business Communication
- BUS270 - Professional Development

Other Major Requirements

Other Major Requirements - Take 1 of 9 subrequirements

Type
Completion Requirement

Office Management

Earn at least 15 credits from the following:

- CTS130 - Spreadsheet
- CTS287 - Emerging Technologies
- MKT223 - Customer Experience
- OST136 - Word Processing
- OST164 - Office Editing

Small Business Management

Fulfill ALL of the following requirements:

Small Business Management Group 1 of 2

Earn at least 13 credits from the

following:

- ACC121 - Principles of Managerial Accounting
- BUS139 - Entrepreneurship I
- BUS230 - Small Business Management
- MKT223 - Customer Experience

AND

Small Business Management Group 2 of 2

Earn at least 3 credits from the following:

- ACC129 - Individual Income Taxes
- BUS125 - Personal Finance

Finance

Fulfill ALL of the following requirements:

Finance Group 1 of 2

Earn at least 13 credits from the following:

- ACC121 - Principles of Managerial Accounting
- ACC122 - Principles of Financial Accounting II
- BUS125 - Personal Finance
- CTS130 - Spreadsheet

AND

Finance Group 2 of 2

Earn at least 2 credits from the following:

- ACC129 - Individual Income Taxes
- ACC140 - Payroll Accounting
- ACC150 - Accounting Software Applications

Healthcare Management

Earn at least 15 credits from the following:

- HMT110 - Introduction to Healthcare Management
- HMT211 - Long-Term Care Administration
- HMT212 - Management of Healthcare Organizations
- MKT223 - Customer Experience
- OST148 - Medical Insurance and Billing

Business Web Development

Fulfill ALL of the following requirements:

Business Web Development - Group 1 of 2

Earn at least 12 credits from the following:

- CTI110 - Information Technology Foundations
- WEB115 - Web Markup and Scripting
- WEB140 - Web Development Tools
- WEB210 - Web Design

AND

Business Web Development - Group 2 of 2

Earn at least 3 credits from the following:

- BUS139 - Entrepreneurship I
- MKT223 - Customer Experience

Business Technology

Earn at least 15 credits from the following:

- CSC113 - Artificial Intelligence Fundamentals
- CSC117 - Artificial Intelligence Tools I
- CTS130 - Spreadsheet

- CTS287 - Emerging Technologies
- OST136 - Word Processing

Business Info Systems

Earn at least 15 credits from the following:

- CTI110 - Information Technology Foundations
- CTI120 - Network and Security Foundations
- CTS115 - Information Systems Business Concepts
- CTS120 - Hardware/Software Support
- CTS240 - Project Management

Business Advertising & Design

Fulfill ALL of the following requirements:

Business Advertising & Design Group 1 of 2

Earn at least 12 credits from the following:

- GRD151 - Computer Design Basics
- GRD152 - Computer Design Technology
- GRD182 - Digital and Print Marketing
- WEB140 - Web Development Tools
- WBL111 - Work-Based Learning I

AND

Business Advertising & Design Group 2 of 2

Earn at least 3 credits from the following:

- BUS139 - Entrepreneurship I
- MKT223 - Customer Experience

Other

Other Requirements

Type
Completion Requirement

ACA Requirements

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Finance Track
Total Degree Map Credits
67
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** BUS110 - Introduction to Business
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2		

	7	0

Requirement Select

- BUS137 - Principles of Management
- **AND** ACC120 - Principles of Financial Accounting

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	10	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** ACC121 - Principles of Managerial Accounting
- **AND** MKT120 - Principles of Marketing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term		

	2 7	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** BUS115 - Business Law I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- ECO252 - Principles of Macroeconomics
- **AND** BUS153 - Human Resource Management
- **AND** BUS125 - Personal Finance

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** BUS253 - Leadership and Management Skills
- **AND** ACC129 - Individual Income Taxes

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- ECO251 - Principles of Microeconomics
- **AND** BUS260 - Business Communication
- **AND** HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- BUS270 - Professional Development
- **AND** ACC122 - Principles of Financial Accounting II
- **AND** CTS130 - Spreadsheet

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Business Web Development Track
Total Degree Map Credits
65
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** BUS110 - Introduction to Business
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	10	0

Requirement Select

- BUS137 - Principles of Management
- **AND** ACC120 - Principles of Financial Accounting
- **AND** ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** CTI110 - Information Technology Foundations
- **AND** WEB115 - Web Markup and Scripting

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- BUS115 - Business Law I
- **AND** MAT143 - Quantitative Literacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year	Semester	Credits	Credits
Year 2	Fall Term 1	6	0

Requirement Select

- BUS153 - Human Resource Management
- **AND** WEB210 - Web Design

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** BUS253 - Leadership and Management Skills
- **AND** ECO252 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- BUS270 - Professional Development
- **AND** MKT120 - Principles of Marketing
- **AND** MKT223 - Customer Experience

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- BUS260 - Business Communication
- **AND** WEB140 - Web Development Tools
- **AND** ART111 - Art Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General	Total Major Credits

Education Credits 0
0
Total Minor Credits **Total Elective Credits**
0 0

Degree Map Name
Office Management Track
Total Degree Map Credits
65
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** BUS110 - Introduction to Business
- **AND** CIS110 - Introduction to Computers

Course Requirement Group
Course Requirement-Group (Free Text)
Minimum Grade -
Area -
Actual Credits 7
Progress Credits -
Contact Hours -
Clinical -
Criticality No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select
- BUS137 - Principles of Management
- **AND** ACC120 - Principles of Financial Accounting

Course Requirement Group
Course Requirement-Group (Free Text)
Minimum Grade -
Area -
Actual Credits 7
Progress Credits -
Contact Hours -
Clinical -
Criticality No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select
- ENG111 - Writing and Inquiry
- **AND** ECO251 - Principles of Microeconomics
- **AND** MKT120 - Principles of Marketing

Course Requirement Group
Course Requirement-Group (Free Text)
Minimum Grade -
Area -
Actual Credits 9
Progress Credits -
Contact Hours -
Clinical -
Criticality No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- MAT143 - Quantitative Literacy
- **AND** BUS115 - Business Law I
- **AND** CTS130 - Spreadsheet

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- BUS153 - Human Resource Management
- **AND** OST136 - Word Processing
- **AND** OST164 - Office Editing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** BUS253 - Leadership and Management Skills
- **AND** ECO252 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	6	0

Requirement Select

- BUS260 - Business Communication
- **AND** MKT223 - Customer Experience

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select
- BUS270 - Professional Development
- **AND** CTS287 - Emerging Technologies
- **AND** HUM230 - Leadership Development

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Small Business Management Track
Total Degree Map Credits
67
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** BUS110 - Introduction to Business
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select
- BUS137 - Principles of Management
- **AND** ACC120 - Principles of Financial Accounting

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term		

1	10	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** ACC121 - Principles of Managerial Accounting
- **AND** MKT120 - Principles of Marketing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	7	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** BUS115 - Business Law I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- ECO252 - Principles of Macroeconomics
- **AND** BUS153 - Human Resource Management
- **AND** BUS139 - Entrepreneurship I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** BUS253 - Leadership and Management Skills
- **AND** BUS125 - Personal Finance

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- ECO251 - Principles of Microeconomics
- **AND** BUS260 - Business Communication
- **AND** MKT223 - Customer Experience

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- HUM115 - Critical Thinking
- **AND** BUS270 - Professional Development
- **AND** BUS230 - Small Business Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits** 0
0	
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Healthcare Management Track
Total Degree Map Credits
65
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** BUS110 - Introduction to Business
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- BUS137 - Principles of Management
- **AND** HMT110 - Introduction to Healthcare Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select

- BUS115 - Business Law I
- **AND** MAT143 - Quantitative Literacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** HMT211 - Long-Term Care Administration
- **AND** MKT120 - Principles of Marketing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- BUS153 - Human Resource Management
- **AND** OST148 - Medical Insurance and Billing
- **AND** ECO252 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	10	0

Requirement Select

- ACC120 - Principles of Financial Accounting
- **AND** BUS253 - Leadership and Management Skills
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- BUS260 - Business Communication
- **AND** ECO251 - Principles of Microeconomics
- **AND** MKT223 - Customer Experience

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- BUS270 - Professional Development
- **AND** HMT212 - Management of Healthcare Organizations
- **AND** PHI240 - Introduction to Ethics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Business Technology Track
Total Degree Map Credits
0
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	0	0
Year 1	Fall Term 2	0	0
Year 1	Spring Term		

	1	0	0

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	0	0

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	0	0

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	0	0

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	0	0

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	0	0

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	0	0

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

Degree Map Name
Business Info Systems Track

Total Degree Map Credits
65

Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** BUS110 - Introduction to Business
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select

- ACC120 - Principles of Financial Accounting
- **AND** BUS137 - Principles of Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term		

1	9	0

Requirement Select

- CTI110 - Information Technology Foundations
- **AND** ENG111 - Writing and Inquiry
- **AND** MKT120 - Principles of Marketing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- BUS115 - Business Law I
- **AND** MAT143 - Quantitative Literacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- ECO252 - Principles of Macroeconomics
- **AND** BUS153 - Human Resource Management
- **AND** CTS120 - Hardware/Software Support

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- BUS253 - Leadership and Management Skills
- **AND** CTI120 - Network and Security Foundations
- **AND** CTS240 - Project Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- ECO251 - Principles of Microeconomics
- **AND** BUS260 - Business Communication
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- HUM115 - Critical Thinking
- **AND** BUS270 - Professional Development
- **AND** CTS115 - Information Systems Business Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Degree Map Name
Business Advertising and Design
Total Degree Map Credits
65
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** BUS110 - Introduction to Business
- **AND** GRD151 - Computer Design Basics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- BUS137 - Principles of Management
- **AND** GRD152 - Computer Design Technology
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** MKT120 - Principles of Marketing
- **AND** ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- BUS115 - Business Law I
- **AND** MAT143 - Quantitative Literacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year	Fall Term 1	**Credits** 9	**Credits** 0

Requirement Select

- BUS153 - Human Resource Management
- **AND** GRD182 - Digital and Print Marketing
- **AND** ACC120 - Principles of Financial Accounting

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** BUS253 - Leadership and Management Skills
- **AND** ECO252 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	1	0

Requirement Select

- WBL111 - Work-Based Learning I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- MKT223 - Customer Experience
- **AND** BUS270 - Professional Development
- **AND** ART111 - Art Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- WEB140 - Web Development Tools
- **AND** BUS260 - Business Communication

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Demonstrate core competencies in accounting, management, marketing, law, and economics.

Utilize appropriate communication skills to effectively gather and share information in a business environment.

Articulate the importance of business ethics and social responsibility to leadership and management decision making.

Demonstrate critical thinking, problem-solving, and decision-making skills that optimize business outcomes.

Use technology and software applications effectively for common business operations.

Apply effective leadership and collaborative behaviors to meet business goals.

A25310 - Medical Office Administration

Program Overview

Curriulum Description

The Medical Office Administration curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

Department(s)

Medical Office Administration

Credential

AAS – Associate in Applied Science

Program Code

A25310

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

Name
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Title
College Navigator

Name
Brandon Burnett

Phone
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Email
bburnett@isothermal.edu

Minimum Required Credit Hours

67

Degree Requirements

A25310H - Medical Office Administration - Healthcare Admin Specialty

Program Overview

Curriulum Description

The Medical Office Administration curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

Department(s)

Medical Office Administration

Credential

AAS – Associate in Applied Science

Program Code

A25310H

Financial Aid Eligible

Yes

Program Contacts

Title
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Title
College Navigator

Name
Brandon Burnett

Phone
828-395-1463

Email
bburnett@isothermal.edu

Minimum Required Credit Hours

69

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communication Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- BIO163 - Basic Anatomy & Physiology
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ECO252 - Principles of Macroeconomics

Humanities Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- HUM115 - Critical Thinking
- HUM230 - Leadership Development
- PHI240 - Introduction to Ethics
- HUM110 - Technology and Society

Major Requirements

Core Requirements

Type
Completion Requirement

Earn at least 24 credits from the following:

- CIS110 - Introduction to Computers
- MED121 - Medical Terminology I
- MED122 - Medical Terminology II
- OST136 - Word Processing
- OST148 - Medical Insurance and Billing
- OST149 - Medical Legal Issues
- OST164 - Office Editing
- OST288 - Medical Office Administration Capstone

Concentration Requirements

Type
Completion Requirement

Healthcare Administration

Earn at least 12 credits from the following:

- BUS153 - Human Resource Management
- HMT110 - Introduction to Healthcare Management
- HMT211 - Long-Term Care Administration
- HMT212 - Management of Healthcare Organizations

Other Major Requirements

Other Major - Sub requirements

Type
Completion Requirement

Subrequirement Groups

Earn at least 12 credits from the following:

- BUS270 - Professional Development
- CTS130 - Spreadsheet
- CTS287 - Emerging Technologies
- OST243 - Medical Office Simulation

Earn at least 3 credits from the following:

- ACC120 - Principles of Financial Accounting
- BUS125 - Personal Finance
- BUS137 - Principles of Management
- BUS253 - Leadership and Management Skills
- BUS260 - Business Communication
- MKT223 - Customer Experience

Additional Comments:

Take 2 groups

Other

ACA Requirement

Type

Completion Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Medical Office Administration - Healthcare Administration
Total Degree Map Credits
69
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** MED121 - Medical Terminology I
- **AND** OST164 - Office Editing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	9	0

Requirement Select

- CIS110 - Introduction to Computers
- **AND** MED122 - Medical Terminology II
- **AND** HMT110 - Introduction to Healthcare Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	11	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** BIO163 - Basic Anatomy & Physiology
- **AND** OST148 - Medical Insurance and Billing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	9	0

Requirement Select

- CTS287 - Emerging Technologies
- **AND** OST243 - Medical Office Simulation
- **AND** HMT211 - Long-Term Care Administration

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** BUS153 - Human Resource Management
- **AND** OST136 - Word Processing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2 (8 week)	9	0

Requirement Select

- OST149 - Medical Legal Issues
- **AND** OST288 - Medical Office Administration Capstone
- **AND** BUS125 - Personal Finance

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year	Semester	Credits	Credits
Year 2	Spring Term 1 (8 week)	9	0

Requirement Select

- PHI240 - Introduction to Ethics
- **AND** BUS270 - Professional Development
- **AND** ECO252 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	6	0

Requirement Select

- CTS130 - Spreadsheet
- **AND** HMT212 - Management of Healthcare Organizations

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Effectively communicate and interpret medical terminology in oral and written communications.

Understand and illustrate the importance of law and ethics in a healthcare setting.

Discuss various reimbursement methodologies and articulate how methods impact the medical practice.

Exhibit proficiency in the use of medical office computer systems, specifically practice management and electronic medical record software.

Demonstrate proficiency in office systems management.

A25310M - Medical Office Admini - Medical Billing and Coding Specialty

Program Overview

Curriulum Description

The Medical Office Administration curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

Department(s)

Medical Office Administration

Credential

AAS – Associate in Applied Science

Program Code

A25310M

Financial Aid Eligible

Yes

Program Contacts

Title

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Title

College Navigator

Name

Brandon Burnett

Phone

828-395-1463

Email

bburnett@isothermal.edu

Minimum Required Credit Hours

69

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communication Requirement

Type

Completion Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- BIO163 - Basic Anatomy & Physiology
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ECO252 - Principles of Macroeconomics

Humanities Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- HUM115 - Critical Thinking
- HUM230 - Leadership Development
- PHI240 - Introduction to Ethics
- HUM110 - Technology and Society

Major Requirements

Core Requirements

Type
Completion Requirement

Earn at least 24 credits from the following:

- CIS110 - Introduction to Computers
- MED121 - Medical Terminology I
- MED122 - Medical Terminology II
- OST136 - Word Processing
- OST148 - Medical Insurance and Billing
- OST149 - Medical Legal Issues
- OST164 - Office Editing
- OST288 - Medical Office Administration Capstone

Concentration Requirements

Type
Completion Requirement

Medical Billing and Coding

Earn at least 12 credits from the following:

- OST247 - Procedure Coding
- OST248 - Diagnostic Coding
- OST249 - Medical Coding Certification Preparation
- OST264 - Medical Auditing

Other Major Requirements

Medical Billing and Coding

Type
Completion Requirement

Earn at least 12 credits from the following:

- BUS270 - Professional Development
- CTS130 - Spreadsheet
- CTS287 - Emerging Technologies

- OST243 - Medical Office Simulation

Earn at least 3 credits from the following:

- ACC120 - Principles of Financial Accounting
- BUS125 - Personal Finance
- BUS137 - Principles of Management
- BUS153 - Human Resource Management
- BUS253 - Leadership and Management Skills
- BUS260 - Business Communication
- MKT223 - Customer Experience

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Medical Office Administration Medical Billing and Coding Track
Total Degree Map Credits
69
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** MED121 - Medical Terminology I
- **AND** OST148 - Medical Insurance and Billing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	9	0

Requirement Select

- CIS110 - Introduction to Computers
- **AND** MED122 - Medical Terminology II
- **AND** OST149 - Medical Legal Issues

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year	Spring Term 1 (8 week)	**Credits** 11	**Credits** 0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** PHI240 - Introduction to Ethics
- **AND** BIO163 - Basic Anatomy & Physiology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	**Semester**	**Actual Credits**	**Progress Credits**
Year 1	Spring Term 2 (8 week)	9	0

Requirement Select

- CTS130 - Spreadsheet
- **AND** CTS287 - Emerging Technologies
- **AND** OST243 - Medical Office Simulation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	**Semester**	**Actual**	**Progress**

Year 2	Fall Term 1 (8 week)	**Credits** 9	**Credits** 0

Requirement Select

- OST136 - Word Processing
- **AND** OST164 - Office Editing
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	**Semester**	**Actual Credits**	**Progress Credits**
Year 2	Fall Term 2 (8 week)	6	0

Requirement Select

- OST248 - Diagnostic Coding
- **AND** OST288 - Medical Office Administration Capstone

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	**Semester**	**Actual Credits**	**Progress Credits**
Year 2	Spring Term 1 (8 week)	9	0

Requirement Select

- OST247 - Procedure Coding
- **AND** BUS270 - Professional Development
- **AND** ECO252 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	9	0

Requirement Select

- OST249 - Medical Coding Certification Preparation
- **AND** OST264 - Medical Auditing
- **AND** BUS125 - Personal Finance

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0

Total Minor Credits	Total Elective Credits
0	0

Learning Outcomes

Learning Outcomes

Effectively communicate and interpret medical terminology in oral and written communications.

Understand and illustrate the importance of law and ethics in a healthcare setting.

Discuss various reimbursement methodologies and articulate how methods impact the medical practice.

Exhibit proficiency in the use of medical office computer systems, specifically practice management and electronic medical record software.

Demonstrate proficiency in office systems management.

A25310S - Medical Office Admin - Patient Services Rep Specialty

Program Overview

Curriulum Description

The Medical Office Administration curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

Department(s)

Medical Office Administration

Credential

AAS – Associate in Applied Science

Program Code

A25310S

Financial Aid Eligible

Yes

Program Contacts

Title

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Title

College Navigator

Name

Brandon Burnett

Phone

828-395-1463

Email

bburnett@isothermal.edu

Minimum Required Credit Hours

69

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communication Requirement

Type

Completion Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- BIO163 - Basic Anatomy & Physiology
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ECO252 - Principles of Macroeconomics

Humanities Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- HUM115 - Critical Thinking
- HUM230 - Leadership Development
- PHI240 - Introduction to Ethics
- HUM110 - Technology and Society

Major Requirements

Core Requirements

Type
Completion Requirement

Earn at least 24 credits from the following:

- CIS110 - Introduction to Computers
- MED121 - Medical Terminology I
- MED122 - Medical Terminology II
- OST136 - Word Processing
- OST148 - Medical Insurance and Billing
- OST149 - Medical Legal Issues
- OST164 - Office Editing
- OST288 - Medical Office Administration Capstone

Concentration Requirements

Type
Completion Requirement

Patient Services Representative

Earn at least 12 credits from the following:

- BUS125 - Personal Finance
- BUS260 - Business Communication
- BUS270 - Professional Development
- MKT223 - Customer Experience

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Patient Services Representative

Earn at least 9 credits from the following:

- CTS130 - Spreadsheet
- CTS287 - Emerging Technologies

- OST243 - Medical Office Simulation

Patient Services Representative

Earn at least 6 credits from the following:

- ACC120 - Principles of Financial Accounting
- BUS110 - Introduction to Business
- BUS137 - Principles of Management
- BUS153 - Human Resource Management
- BUS253 - Leadership and Management Skills

Additional Comments:

Take both groups

Other

ACA Requirement

Type

Completion Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Medical Office Administration - Patient Services Representative Specialty
Total Degree Map Credits
69
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- MED121 - Medical Terminology I
- **AND** OST148 - Medical Insurance and Billing
- **AND** ACA122 - Transfer & Career Success

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- MED122 - Medical Terminology II
- **AND** CIS110 - Introduction to Computers
- **AND** OST149 - Medical Legal Issues

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term		

1	11	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** BIO163 - Basic Anatomy & Physiology
- **AND** MKT223 - Customer Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- CTS287 - Emerging Technologies
- **AND** OST243 - Medical Office Simulation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- BUS125 - Personal Finance
- **AND** OST136 - Word Processing
- **AND** OST164 - Office Editing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** OST288 - Medical Office Administration Capstone
- **AND** BUS110 - Introduction to Business

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- HUM115 - Critical Thinking
- **AND** BUS270 - Professional Development
- **AND** ECO252 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- CTS130 - Spreadsheet
- **AND** BUS260 - Business Communication
- **AND** BUS137 - Principles of Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Effectively communicate and interpret medical terminology in oral and written communications.

Understand and illustrate the importance of law and ethics in a healthcare setting.

Discuss various reimbursement methodologies and articulate how methods impact the medical practice.

Exhibit proficiency in the use of medical office computer systems, specifically practice management and electronic medical record software.

Demonstrate proficiency in office systems management.

A25590 - Information Technology

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)

Information Technology

Credential

AAS – Associate in Applied Science

Program Code

A25590

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title
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Title
College Navigator

Name
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Minimum Required Credit Hours

65

Degree Requirements

Degree Maps

Learning Outcomes

Learning Outcomes

Apply proper planning and design techniques to develop computer software solutions.

Demonstrate programming concepts and techniques.

Utilize industry related programming tools and techniques to develop highly sophisticated programs.

Employ logical structure development techniques for designing IT solutions.

A25590AI - Information Technology - Artificial Intelligence

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)

Information Technology

Credential

AAS – Associate in Applied Science

Program Code

A25590AI

Program Can be Earned 100% Online

Yes

Program Contacts

Title
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Minimum Required Credit Hours
65

Degree Requirements

Degree Maps

Degree Map Name
Information Technology - Artificial Intelligence
Total Degree Map Credits
66

Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** CSC113 - Artificial Intelligence Fundamentals
- **AND** SEC110 - Security Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- CSC114 - Artificial Intelligence I
- **AND** CTI120 - Network and Security Foundations
- **AND** CIS115 - Introduction to Programming and Logic

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** CSC115 - Machine Learning I
- **AND** CTI110 - Information Technology Foundations

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	10	0

Requirement Select

- CSC117 - Artificial Intelligence Tools I
- **AND** CTS115 - Information Systems Business Concepts
- **AND** MAT152 - Statistical Methods I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- CSC121 - Python Programming
- **AND** NOS120 - Linux Single User
- **AND** CTS120 - Hardware/Software Support

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- CSC221 - Advanced Python Programming
- **AND** CTS240 - Project Management
- **AND** CCT112 - Ethics & High Technology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- HUM115 - Critical Thinking
- **AND** PSY150 - General Psychology
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	4	0

Requirement Select

- BUS270 - Professional Development
- **AND** WBL111 - Work-Based Learning I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Apply proper planning and design techniques to develop computer software solutions.

Demonstrate programming concepts and techniques.

Utilize industry related programming tools and techniques to develop highly sophisticated programs.

Employ logical structure development techniques for designing IT solutions.

A25590CS - Information Technology - Cybersecurity

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)

Information Technology

Credential

AAS – Associate in Applied Science

Program Code

A25590CS

Program Can be Earned 100% Online

Yes

Financial Aid Eligible
Yes

Program Contacts

Title
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Minimum Required Credit Hours
65

Degree Requirements

Simple Requirements

General Education

General Education

Type
Completion Requirement

English Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Mathematics Requirement

Earn at least 3 credits from the following:

- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Humanities Requirement

Earn at least 3 credits from the following:

- HUM115 - Critical Thinking
- PHI240 - Introduction to Ethics
- HUM110 - Technology and Society

Social Science Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- PSY150 - General Psychology

Major Requirements

Major Requirement

Type
Completion Requirement

Technical Core

Earn at least 12 credits from the following:

- CIS115 - Introduction to Programming and Logic
- CTI110 - Information Technology Foundations
- CTI120 - Network and Security Foundations
- CTS115 - Information Systems Business Concepts

Concentration Requirement

Earn at least 6 credits from the following:

- CCT112 - Ethics & High Technology
- SEC160 - Security Administration I

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Cybersecurity

Earn at least 30 credits from the following:

- BUS270 - Professional Development
- CCT250 - Network Vulnerabilities I
- CSC121 - Python Programming
- NET125 - Introduction to Networks
- NET126 - Switching and Routing
- NOS110 - Operating Systems Concepts
- NOS120 - Linux Single User
- NOS220 - Linux Administration I
- SEC110 - Security Concepts
- SEC210 - Intrusion Detection

Complete at least 1 of the following

courses:

- SEC285 - Systems Security Project
- WBL111 - Work-Based Learning I

Other

Other Requirements

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Information Technology - Cybersecurity
Total Degree Map Credits
68
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** CIS115 - Introduction to Programming and Logic
- **AND** SEC110 - Security Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	10	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** CTI120 - Network and Security Foundations
- **AND** NOS110 - Operating Systems Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** NET125 - Introduction to Networks
- **AND** CTI110 - Information Technology Foundations

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** CTS115 - Information Systems Business Concepts
- **AND** NET126 - Switching and Routing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year	Fall Term 1	Credits	Credits
		9	0

Requirement Select

- PHI240 - Introduction to Ethics
- **AND** CSC121 - Python Programming
- **AND** NOS120 - Linux Single User

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- PSY150 - General Psychology
- **AND** CCT112 - Ethics & High Technology
- **AND** NOS220 - Linux Administration I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year	Spring Term	Credits	Credits
Year 2	1	6	0

Requirement Select

- SEC160 - Security Administration I
- **AND** CCT250 - Network Vulnerabilities I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- SEC210 - Intrusion Detection
- **AND** BUS270 - Professional Development
- **AND** SEC285 - Systems Security Project

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	

0

Total Minor Credits	Total Elective Credits
0	0

Learning Outcomes

Learning Outcomes

Apply proper planning and design techniques to develop computer software solutions.

Demonstrate programming concepts and techniques.

Utilize industry related programming tools and techniques to develop highly sophisticated programs.

Employ logical structure development techniques for designing IT solutions.

A25590I - Information Technology Business Support Specialty

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)

Information Technology

Credential

AAS – Associate in Applied Science

Program Code

A25590I

Program Can be Earned 100% Online

Yes

Financial Aid Eligible
Yes

Program Contacts

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Minimum Required Credit Hours
65

Degree Requirements

Simple Requirements

General Education

General Education

Type
Completion Requirement

English Requirement

Earn at least 3 credits from the following:
- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:
- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Mathematics Requirement

Earn at least 3 credits from the following:
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Humanities Requirement

Earn at least 3 credits from the following:
- HUM115 - Critical Thinking
- PHI240 - Introduction to Ethics
- HUM110 - Technology and Society

Social Science Requirement

Earn at least 3 credits from the following:
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- PSY150 - General Psychology

Major Requirements

Major Requirement

Type
Completion Requirement

Technical Core

Earn at least 12 credits from the following:

- CIS110 - Introduction to Computers
- CTI110 - Information Technology Foundations
- CTI120 - Network and Security Foundations
- CTS115 - Information Systems Business Concepts

Concentration Requirement

Earn at least 6 credits from the following:

- CTS130 - Spreadsheet
- CTS240 - Project Management

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

IT Business Support

Fulfill ALL of the following requirements:

IT Business Support

Complete ALL of the following Courses:

- BUS270 - Professional Development
- CIS115 - Introduction to Programming and Logic
- CSC113 - Artificial Intelligence Fundamentals
- CTI141 - Cloud and Storage Concepts
- CTS120 - Hardware/Software Support
- CTS287 - Emerging Technologies
- NET125 - Introduction to Networks
- NET126 - Switching and Routing
- NOS110 - Operating Systems Concepts
- WEB115 - Web Markup and Scripting

Complete at least 1 of the following courses:

- WBL111 - Work-Based Learning I
- CTS289 - System Support Project

Other

Other Requirements

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Information Technology - Business Support Specialty (A25590I)
Total Degree Map Credits
68
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** CIS110 - Introduction to Computers
- **AND** CIS115 - Introduction to Programming and Logic

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	10	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** CTI120 - Network and Security Foundations
- **AND** NOS110 - Operating Systems Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select

- CTI110 - Information Technology Foundations
- **AND** NET125 - Introduction to Networks
- **AND** WEB115 - Web Markup and Scripting

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** NET126 - Switching and Routing
- **AND** CTS115 - Information Systems Business Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	6	0

Requirement Select

- HUM115 - Critical Thinking
- **AND** CTS120 - Hardware/Software Support

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- PSY150 - General Psychology
- **AND** CTS240 - Project Management
- **AND** CSC113 - Artificial Intelligence Fundamentals

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- CTS130 - Spreadsheet
- **AND** BUS270 - Professional Development
- **AND** CTI141 - Cloud and Storage Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term		

2	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** CTS287 - Emerging Technologies
- **AND** CTS289 - System Support Project

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Employ logical structure development techniques for designing IT solutions.

Learning Outcomes

Learning Outcomes

Apply proper planning and design techniques to develop computer software solutions.

Demonstrate programming concepts and techniques.

Utilize industry related programming tools and techniques to develop highly sophisticated programs.

A25590SW - Information Technology - Software/Web Development

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)

Information Technology

Credential

AAS – Associate in Applied Science

Program Code

A25590SW

Program Can be Earned 100% Online

Yes

Program Contacts

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Minimum Required Credit Hours

68

Degree Requirements

Degree Maps

Degree Map Name

Information Technology - Software and Web Development

Total Degree Map Credits

68

Degree Map Effective Catalog Year

2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** CIS115 - Introduction to Programming and Logic
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	10	0

Requirement Select

- CTI120 - Network and Security Foundations
- **AND** CIS110 - Introduction to Computers
- **AND** MAT152 - Statistical Methods I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	9	0

Requirement Select

- CTI110 - Information Technology Foundations
- **AND** PSY150 - General Psychology
- **AND** WEB115 - Web Markup and Scripting

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term		

2 (8 week)	9	0

Requirement Select

- CTS115 - Information Systems Business Concepts
- **AND** WEB140 - Web Development Tools
- **AND** WEB182 - PHP Programming

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	9	0

Requirement Select

- CSC121 - Python Programming
- **AND** WEB210 - Web Design
- **AND** WEB250 - Database Driven Websites

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2		

(8 week)	9	0

Requirement Select

- CSC221 - Advanced Python Programming
- **AND** CSC113 - Artificial Intelligence Fundamentals
- **AND** CTS240 - Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1 (8 week)	9	0

Requirement Select

- BUS270 - Professional Development
- **AND** CSC151 - JAVA Programming
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year 2	Spring Term 2 (8 week)	**Credits** 6	**Credits** 0

Requirement Select

- HUM115 - Critical Thinking
- **AND** CSC289 - Programming Capstone Project

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits 0	**Total Major Credits** 0
Total Minor Credits 0	**Total Elective Credits** 0

Employ logical structure development techniques for designing IT solutions.

Learning Outcomes

Learning Outcomes

Apply proper planning and design techniques to develop computer software solutions.

Demonstrate programming concepts and techniques.

Utilize industry related programming tools and techniques to develop highly sophisticated programs.

A25800 - Accounting and Finance

Program Overview

Curriulum Description

The Accounting and Finance curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting and finance profession. Accountants and finance professionals assemble and analyze, process, and communicate essential information about financial operations.

Course work may include accounting, finance, ethics, business law, computer applications, financial planning, insurance, marketing, real estate, selling, and taxation. Related skills are developed through the study of communications, computer applications, financial analysis, critical thinking skills, and ethics.

Graduates should qualify for entry-level accounting and finance positions in many types of organizations including accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, and governmental agencies.

Department(s)

Accounting and Finance

Credential

AAS – Associate in Applied Science

Program Code

A25800

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

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Title

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Name

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Phone

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Minimum Required Credit Hours

65

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I

Social Science Requirement

Type
Completion Requirement

Complete ALL of the following Courses:

- ECO252 - Principles of Macroeconomics

Humanities Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 23 credits from the following:

- ACC120 - Principles of Financial Accounting
- ACC121 - Principles of Managerial Accounting
- BUS115 - Business Law I
- BUS125 - Personal Finance
- CIS110 - Introduction to Computers
- CTS130 - Spreadsheet
- ECO251 - Principles of Microeconomics

Concentration Requirement

Type
Completion Requirement

Earn at least 9 credits from the following:
- ACC129 - Individual Income Taxes
- ACC140 - Payroll Accounting
- ACC220 - Intermediate Accounting I

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 14 credits from the following:
- ACC122 - Principles of Financial Accounting II
- ACC150 - Accounting Software Applications
- ACC227 - Practices in Accounting
- BUS110 - Introduction to Business
- BUS270 - Professional Development

Required Elective

Type
Completion Requirement

Earn at least 3 credits from the following:
- BUS137 - Principles of Management
- BUS253 - Leadership and Management Skills
- BUS260 - Business Communication
- CSC139 - Visual BASIC Programming
- MKT120 - Principles of Marketing

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Accounting and Finance degree
Total Degree Map Credits
65
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** BUS110 - Introduction to Business
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2		

	7	0

Requirement Select

- ACC120 - Principles of Financial Accounting
- **AND** BUS125 - Personal Finance

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** ACC121 - Principles of Managerial Accounting
- **AND** ACC150 - Accounting Software Applications

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- MAT143 - Quantitative Literacy
- **AND** ACC122 - Principles of Financial Accounting II
- **AND** CTS130 - Spreadsheet

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	8	0

Requirement Select

- ACC140 - Payroll Accounting
- **AND** BUS115 - Business Law I
- **AND** ECO252 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	10	0

Requirement Select

- ACC220 - Intermediate Accounting I
- **AND** ACC129 - Individual Income Taxes
- **AND** BUS137 - Principles of Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- ECO251 - Principles of Microeconomics
- **AND** BUS270 - Professional Development
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- ACC227 - Practices in Accounting
- **AND** ART111 - Art Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

A30100 - Graphic Design

Program Overview

Curriulum Description

The Advertising and Graphic Design curriculum is designed to provide students with knowledge and skills necessary for employment in the graphic design profession which emphasizes design, advertising, illustration, and digital and multimedia preparation of printed and electronic promotional materials.

Students will be trained in the development of concept and design for promotional materials such as newspaper and magazine advertisements, posters, folders, letterheads, corporate symbols, brochures, booklets, preparation of art for printing, lettering and typography, photography, and electronic media.

Graduates should qualify for employment opportunities with graphic design studios, advertising agencies, printing companies, department stores, a wide variety of manufacturing industries, newspapers, and businesses with in-house graphics operations.

Department(s)
Graphic Design

Credential
AAS – Associate in Applied Science

Program Code
A30100

Financial Aid Eligible
Yes

Program Contacts

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Title
College Navigator

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Minimum Required Credit Hours
67

Degree Requirements

Simple Requirements

General Education

General Education Requirement

Type
Completion Requirement

English Requirement

Complete ALL of the following Courses:

- ENG111 - Writing and Inquiry

Communication Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM110 - Technology and Society
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL111 - Eastern Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Social Science Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Math Requirement

Earn at least 3 credits from the following:

- BIO110 - Principles of Biology
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy

Major Requirements

Major Requirement

Type
Completion Requirement

Core Requirements

Earn at least 25 credits from the following:

- GRD110 - Typography I
- GRD141 - Graphic Design I
- GRD142 - Graphic Design II
- GRD151 - Computer Design Basics
- GRD152 - Computer Design Technology
- GRD241 - Graphic Design III
- GRD280 - Portfolio Design

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Other Major Requirements

Earn at least 22 credits from the following:

- GRD131 - Illustration I
- GRD132 - Illustration II
- GRD153 - Computer Design Solutions
- GRD160 - Photo Fundamentals I
- GRD167 - Digital Photography I
- GRD168 - Digital Photography II
- GRD182 - Digital and Print Marketing
- GRD121 - Drawing Fundamentals I

Other Major Required

Earn at least 4 credits from the following:

- BPT140 - Introduction to Media Productions
- BPT220 - Emerging Technologies
- BPT255 - Computer-Based Production
- BUS110 - Introduction to Business
- BUS137 - Principles of Management
- BUS139 - Entrepreneurship I
- BUS230 - Small Business Management
- CIS110 - Introduction to Computers
- CTI110 - Information Technology Foundations
- GRD133 - Illustration III
- MKT120 - Principles of Marketing
- MKT223 - Customer Experience
- SPA111 - Elementary Spanish I
- WBL111 - Work-Based Learning I
- WBL121 - Work-Based Learning II
- WEB115 - Web Markup and Scripting
- WEB140 - Web Development Tools

Other

ACA Requirement

Type
Completion Requirement

ACA Requirement

Complete ALL of the following Courses:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Graphic Design
Total Degree Map Credits
69
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** GRD167 - Digital Photography I
- **AND** GRD151 - Computer Design Basics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2		

	10	0

Requirement Select

- GRD152 - Computer Design Technology
- **AND** GRD141 - Graphic Design I
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	4	0

Requirement Select

- GRD142 - Graphic Design II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	2	0

Requirement Select

- GRD121 - Drawing Fundamentals I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- GRD110 - Typography I
- **AND** GRD160 - Photo Fundamentals I
- **AND** GRD153 - Computer Design Solutions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	9	0

Requirement Select

- PSY150 - General Psychology
- **AND** ART111 - Art Appreciation
- **AND** MAT110 - Mathematical Measurement and Literacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	7	0

Requirement Select

- GRD131 - Illustration I
- **AND** GRD241 - Graphic Design III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	3	0

Requirement Select

- MKT120 - Principles of Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	5	0

Requirement Select

- GRD168 - Digital Photography II
- **AND** GRD182 - Digital and Print Marketing

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	7	0

Requirement Select

- GRD280 - Portfolio Design
- **AND** GRD132 - Illustration II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	3	0

Requirement Select

- COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	3	0

Requirement Select

- BUS230 - Small Business Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

A30120 - Audio and Video Production Technology

Program Overview

Curriulum Description

Students enrolled in the Audio and Video Production Technology curriculum will develop professional skills in audio, video, and related applications.

Training will emphasize speech, writing, production planning, postproduction, and distribution. Students will also study the evolution of media, revenue models, entrepreneurial opportunities, and governmental regulations. Hands-on training, troubleshooting, collaboration, and time management skills are essential to the instructional process.

Upon successful completion, students are prepared to obtain audio and/or video-related employment.

Department(s)

Audio and Video Production Technology

Credential

AAS – Associate in Applied Science

Program Code

A30120

Financial Aid Eligible

Yes

Program Contacts

Title

Faculty Mentor

Name

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Title

College Navigator

Name

Brandon Burnett

Phone

828-395-1463

Email

bburnett@isothermal.edu

Minimum Required Credit Hours

67

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communication Requirement

Type

Completion Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Humanities Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Math Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 13 credits from the following:

- BPT110 - Media Evolution
- BPT112 - Media Writing
- BPT121 - Media Speech Techniques
- BPT140 - Introduction to Media Productions

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Earn at least 24 credits from the following:
- BPT131 - Audio Production I
- BPT132 - Audio Production II
- BPT135 - Audio Performance I
- BPT136 - Audio Performance II
- BPT231 - Video Production I
- BPT232 - Video Production II
- BPT235 - Video Performance I
- BPT236 - Video Performance II

Other

Other Required Courses

Type
Completion Requirement

Earn at least 8 credits from the following:
- BPT215 - Industry Career Preparation
- BPT220 - Emerging Technologies
- WBL111 - Work-Based Learning I

Other Major Options

Type
Completion Requirement

Earn at least 6 credits from the following:
- BPT255 - Computer-Based Production
- BUS139 - Entrepreneurship I
- BUS230 - Small Business Management
- GRD151 - Computer Design Basics
- MKT223 - Customer Experience

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Audio and Video Production Technology
Total Degree Map Credits
67
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	8	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** BPT110 - Media Evolution
- **AND** BPT131 - Audio Production I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	8	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** BPT140 - Introduction to Media Productions
- **AND** BPT135 - Audio Performance I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	8	0

Requirement Select

- BPT231 - Video Production I
- **AND** BPT132 - Audio Production II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	7	0

Requirement Select

- BPT112 - Media Writing
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	8	0

Requirement Select

- MUS110 - Music Appreciation
- **AND** MAT110 - Mathematical Measurement and Literacy
- **AND** BPT235 - Video Performance I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	4	0

Requirement Select

- BPT232 - Video Production II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	6	0

Requirement Select

- BPT121 - Media Speech Techniques
- **AND** GRD151 - Computer Design Basics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	5	0

Requirement Select

- BPT136 - Audio Performance II
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	1	0

Requirement Select

- WBL111 - Work-Based Learning I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	5	0

Requirement Select

- BPT255 - Computer-Based Production
- **AND** BPT236 - Video Performance II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	7	0

Requirement Select

- BPT220 - Emerging Technologies
- **AND** BPT215 - Industry Career Preparation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

A35130 - Electrical System Technology

Program Overview

Curriulum Description

This curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical systems.

Department(s)

Electrical Systems Technology

Credential

AAS – Associate in Applied Science

Program Code

A35130

Financial Aid Eligible

Yes

Program Contacts

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Title
College Navigator

Name
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Email
bburnett@isothermal.edu

Minimum Required Credit Hours
64

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ENG111 - Writing and Inquiry

Communication Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- MAT110 - Mathematical Measurement and Literacy
- MAT121 - Algebra/Trigonometry I
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I

Humanities Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old

Testament
- REL212 - Introduction to New Testament

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Major Requirements

Required Core

Type
Completion Requirement

Earn at least 16 credits from the following:
- ELC112 - DC/AC Electricity
- ELC113 - Residential Wiring
- ELC117 - Motors and Controls
- ELC128 - Introduction to Programmable Logic Controller

Required Elective

Type
Completion Requirement

Earn at least 12 credits from the following:
- ELC114 - Commercial Wiring
- ELC115 - Industrial Wiring
- ELC118 - National Electrical Code
- ELC119 - NEC Calculations

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Earn at least 18 credits from the following:
- CIS110 - Introduction to Computers
- ELC134 - Transformer Applications
- ELC135 - Electrical Machines
- ELC220 - Photovoltaic System Technology
- ELC228 - Programmable Logic Controllers Applications
- ELN231 - Industrial Controls
- SPA111 - Elementary Spanish I

Required Elective

Type
Completion Requirement

Earn at least 2 credits from the following:
- DFT111 - Technical Drafting I
- DFT111A - Technical Drafting I Lab
- DFT151 - CAD I
- ELC127 - Software for Technicians
- ELC132 - Electrical Drawings
- HYD110 - Hydraulics/Pneumatics I

- MNT222 - Industrial Systems Schematics
- WLD112 - Basic Welding Processes

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Electrical Systems Technology
Total Degree Map Credits
64
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	11	0

Requirement Select
- ELC112 - DC/AC Electricity
- **AND** ELC113 - Residential Wiring
- **AND** ELC118 - National Electrical Code

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	1	0

Requirement Select
- ACA122 - Transfer & Career Success

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select

- MAT110 - Mathematical Measurement and Literacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	13	0

Requirement Select

- ELC114 - Commercial Wiring
- **AND** ELC117 - Motors and Controls
- **AND** ELC119 - NEC Calculations
- **AND** ELC135 - Electrical Machines

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	13
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	10	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** ELC115 - Industrial Wiring
- **AND** ELN231 - Industrial Controls

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	3	0

Requirement Select

- ELC220 - Photovoltaic System Technology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	6	0

Requirement Select

- HUM115 - Critical Thinking
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	3	0

Requirement Select

- COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	11	0

Requirement Select

- ELC134 - Transformer Applications
- **AND** ELC128 - Introduction to Programmable Logic Controller
- **AND** ELC228 - Programmable Logic Controllers Applications
- **AND** ELC132 - Electrical Drawings

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	3	0

Requirement Select

- PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Explain electrical safety procedures.

Create AC general lighting circuits as defined by the National Electrical Code.

Create simple DC circuits.

Demonstrate the installation of electrical conduits properly.

Connect simple and moderate motor control circuits.

Effectively use the National Electrical Code.

A35140 - Building Construction Technology

Program Overview

Curriulum Description

The Building Construction Technology curriculum is designed to provide students with an overview of the building construction industry. Construction labs/ lecture courses and other related classes provide students with up-to-date knowledge on materials, trends, and techniques of the ever-changing construction industry.

Course work includes basic construction concepts such as general construction, blueprint reading, construction estimating, and project management. Students may also diversify their knowledge of construction in other areas such as electrical wiring, construction surveying, plumbing, statics/strength of materials, and HVAC.

Graduates should qualify for entry-level jobs in any general construction setting and be able to advance quickly to management positions such as supervisors, superintendents, project coordinators, project planners, estimators, and inspectors.

Department(s)

Building Construction Technology

Credential

AAS – Associate in Applied Science

Program Code

A35140

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

Name
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Title
College Navigator

Name
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Email
bburnett@isothermal.edu

Minimum Required Credit Hours
68

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ENG111 - Writing and Inquiry

Communications Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- MAT110 - Mathematical Measurement and Literacy
- MAT121 - Algebra/Trigonometry I

Humanities Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ENG231 - American Literature I
- ENG241 - British Literature I
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues

- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- HUM230 - Leadership Development

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS131 - American History I
- POL120 - American Government
- PSY150 - General Psychology
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 13 credits from the following:

- ARC112 - Construction Materials & Methods
- ARC131 - Building Codes
- BPR130 - Print Reading-Construction
- CMT120 - Codes and Inspections

Required Subject Area

Type
Completion Requirement

Take 1 of 2 Groups

Earn at least 12 credits from the following:

- CAR111 - Carpentry I
- CST220 - Seismic & Load Estimating

Earn at least 12 credits from the following:

- CST111 - Construction I
- CST112 - Construction II
- CST220 - Seismic & Load Estimating

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Maximum 9 credits per subject

Earn at least 27 credits from the following:

- AHR120 - HVACR Maintenance
- AHR151 - HVAC Duct Systems I
- AHR210 - Residential Building Code
- AHR211 - Residential System Design
- CAB111 - Cabinetmaking I
- CAR120 - Commercial Carpentry I
- CIV240 - Project Management
- CST131 - OSHA/Safety/Certification
- CST232 - Basic Construction Equipment Ops
- CST241 - Planning/Estimating I
- CST244 - Sustainable Building Design
- CST260 - General Contractor Preparation
- PLU115 - Basic Plumbing
- PLU211 - Commercial/Ind Plumbing

- WBL111 - Work-Based Learning I

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Building Construction Technology Degree
Total Degree Map Credits
71
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	8	0

Requirement Select
- CAR111 - Carpentry I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	5	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** ARC112 - Construction Materials & Methods

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select
- MAT110 - Mathematical Measurement and Literacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	7	0

Requirement Select
- CAB111 - Cabinetmaking I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select
- ENG111 - Writing and Inquiry
- **AND** BPR130 - Print Reading-Construction

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select
- ARC131 - Building Codes

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	13	0

Requirement Select
- CMT120 - Codes and Inspections
- **AND** CST244 - Sustainable Building Design
- **AND** CIV240 - Project Management
- **AND** CST220 - Seismic & Load Estimating

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	13
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** AHR151 - HVAC Duct Systems I
- **AND** PLU115 - Basic Plumbing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	2	0

Requirement Select

- AHR120 - HVACR Maintenance

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- CAR120 - Commercial Carpentry I
- **AND** CST131 - OSHA/Safety/ Certification

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- HUM115 - Critical Thinking
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Identify materials and methods involved in the construction or repair of houses and buildings.

Demonstrate the interpretation of prints and specifications that are associated with construction projects.

Apply the mathematical principles of statics and strength of materials as applied to structural building components.

Demonstrate knowledge of machines and tools involved in the construction or repair of houses and buildings.

Demonstrate knowledge of workplace safety and ethics.

Apply the practical application of building codes involved in the construction or repair of houses and buildings.

A40200 - Electronics Engineering Technology

Program Overview

Curriulum Description

The Electronics Engineering Technology curriculum prepares individuals to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems.

A broad-based core of courses, including basic electricity, solid-state fundamentals, digital concepts, and microprocessors, ensures the student will develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the student's ability to analyze and troubleshoot electronic systems.

Graduates should qualify for employment as engineering assistants or electronic technicians with job titles such as electronics engineering technician, field service technician, instrumentation technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

Department(s)

Electronics Engineering Technology

Credential

AAS – Associate in Applied Science

Program Code

A40200

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

Name
Steve Hollifield

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828-395-1521

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shollifield@isothermal.edu

Title
College Navigator

Name
Brandon Burnett

Phone
828-395-1463

Email
bburnett@isothermal.edu

Minimum Required Credit Hours
65

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Humanities Elective

Type
Completion Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Math Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- MAT121 - Algebra/Trigonometry I
- MAT171 - Precalculus Algebra

Major Requirements

Technical Core

Type
Completion Requirement

Earn at least 16 credits from the following:
- ELC138 - DC Circuit Analysis
- ELC139 - AC Circuit Analysis
- ELN131 - Analog Electronics I
- ELN133 - Digital Electronics

Major Required

Type
Completion Requirement

Earn at least 13 credits from the following:
- ELC127 - Software for Technicians
- ELC128 - Introduction to Programmable Logic Controller
- ELC132 - Electrical Drawings
- ELN152 - Fabrication Techniques
- ELN232 - Introduction to Microprocessors

Concentration Requirement

Type
Completion Requirement

Electronics and Automation

Take 1 of 2 Subrequirements

Earn at least 10 credits from the following:
- ATR112 - Introduction to Automation
- ATR211 - Robot Programming
- ELC228 - Programmable Logic Controllers Applications

Electric Utility

Earn at least 12 credits from the following:
- ELC231 - Electric Power Systems
- EUS110 - Introduction to Electric Utility Industry
- EUS130 - Electric Utility Print Reading

Other Major Requirements

Programming

Type
Completion Requirement

Earn at least 3 credits from the following:
- CET161 - Procedural Programming
- CSC134 - C++ Programming

Physics

Type
Completion Requirement

Earn at least 4 credits from the following:
- PHY131 - Physics-Mechanics

Major Elective

Type
Completion Requirement

Earn at least 3 credits from the following:
- MAT122 - Algebra/Trigonometry II
- MAT152 - Statistical Methods I
- MAT172 - Precalculus Trigonometry
- MAT271 - Calculus I
- NET125 - Introduction to Networks

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
A40200 - Electronics Engineering Technology - Electronics & Automation Track
Total Degree Map Credits
69
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	8	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** ATR112 - Introduction to Automation
- **AND** ELC138 - DC Circuit Analysis

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	12	0

Requirement Select

- ELC139 - AC Circuit Analysis
- **AND** ELN133 - Digital Electronics
- **AND** MAT171 - Precalculus Algebra

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	8	0

Requirement Select

- ELN131 - Analog Electronics I
- **AND** ELN232 - Introduction to Microprocessors

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	8	0

Requirement Select

- ATR211 - Robot Programming
- **AND** ELC132 - Electrical Drawings
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	3	0

Requirement Select

- CET161 - Procedural Programming

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	5	0

Requirement Select

- ELC127 - Software for Technicians
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- ELN152 - Fabrication Techniques
- **AND** PHY131 - Physics-Mechanics
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- ELC128 - Introduction to Programmable Logic Controller
- **AND** ELN249 - Digital Communication
- **AND** HUM120 - Cultural Studies

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	7	0

Requirement Select

- ELC228 - Programmable Logic Controllers Applications
- **AND** ELN237 - Local Area Networks

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0

Total Minor Credits	Total Elective Credits
0	0

Degree Map Name
A40200 - Electronics Engineering Technology - Electrical Utility Track
Total Degree Map Credits
71
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	9	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** ELC138 - DC Circuit Analysis
- **AND** MAT171 - Precalculus Algebra

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	12	0

Requirement Select
- ELC139 - AC Circuit Analysis
- **AND** ELN133 - Digital Electronics
- **AND** EUS110 - Introduction to Electric Utility Industry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	8	0

Requirement Select
- ELN131 - Analog Electronics I
- **AND** ELN232 - Introduction to Microprocessors

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- ELC132 - Electrical Drawings
- **AND** ENG111 - Writing and Inquiry
- **AND** EUS130 - Electric Utility Print Reading

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	3	0

Requirement Select

- CET161 - Procedural Programming

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	5	0

Requirement Select

- ELC127 - Software for Technicians
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- ELN152 - Fabrication Techniques
- **AND** PHY131 - Physics-Mechanics
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	10	0

Requirement Select

- ELC128 - Introduction to Programmable Logic Controller
- **AND** ELC231 - Electric Power Systems
- **AND** ELN249 - Digital Communication

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- ELN237 - Local Area Networks
- **AND** HUM120 - Cultural Studies

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Mathematically demonstrate basic engineering-related laws and theory (eg. Ohm's law, Kirchoff's Laws).

Demonstrate competency with field test instruments (e.g. Digital Multimeter, Oscilloscope).

Demonstrate competency with semiconductor applications (e.g.. Transistor theory, sensors, I.C.'s).

Demonstrate basic digital logic principles, design and troubleshooting concepts (eg. Gate logic, digital devices).

Demonstrate competency with automation technology (e.g.. PLC programming, Microcontrollers).

A40320 - Mechanical Engineering Technology

Program Overview

Curriulum Description

The Mechanical Engineering Technology curriculum prepares graduates for employment as technicians in the diversified mechanical and manufacturing engineering fields. Mechanical Engineering technicians assist in design, development, testing, process design and improvement, and troubleshooting and repair of engineered systems. Emphasis is placed on the integration of theory and hands-on application of engineering principles.

In addition to course work in engineering graphics, engineering fundamentals, materials and manufacturing processes, mathematics, and physics, students will study computer applications, critical thinking, planning and problem solving, and oral and written communications.

Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET.

Department(s)

Mechanical Engineering Technology

Credential

AAS – Associate in Applied Science

Program Code

A40320

Financial Aid Eligible

Yes

Program Contacts

Title

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Title

College Navigator

Name

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Minimum Required Credit Hours

76

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

Complete ALL of the following Courses:

- ENG111 - Writing and Inquiry

Communications Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- MAT121 - Algebra/Trigonometry I
- MAT171 - Precalculus Algebra

Humanities Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- HUM115 - Critical Thinking

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Major Requirements

Required Core

Type
Completion Requirement

Earn at least 24 credits from the following:

- DFT151 - CAD I
- DFT154 - Introduction to Solid Modeling
- EGR250 - Statics/Strength of Mater
- HYD110 - Hydraulics/Pneumatics I
- MEC161 - Manufacturing Processes I
- MEC180 - Engineering Materials
- PHY131 - Physics-Mechanics

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Complete ALL of the following Courses:

- ISC121 - Environmental Health & Safety
- ISC132 - Manufacturing Quality Control
- MAC141 - Machining Applications I
- MAC141A - MacHining Applications I Lab

Tracks

Type
Completion Requirement

Take 1 of 3 Groups

Earn at least 22 credits from the following:

- EGR110 - Introduction to Engineering Technology
- MAC121 - Introduction to CNC
- MAT122 - Algebra/Trigonometry II
- MEC231 - Computer-Aided Manufacturing I
- MEC232 - Computer-Aided Manufacturing II
- MEC270 - Machine Design
- MEC271 - Machine Design Project
- ISC212 - Metrology
- EGR125 - Applications Software for Tech

Earn at least 23 credits from the following:

- EGR110 - Introduction to Engineering Technology
- MAC121 - Introduction to CNC
- MAT172 - Precalculus Trigonometry
- MEC231 - Computer-Aided Manufacturing I
- MEC232 - Computer-Aided Manufacturing II
- MEC270 - Machine Design
- MEC271 - Machine Design Project
- ISC212 - Metrology
- EGR125 - Applications Software for Tech

Earn at least 22 credits from the following:

- DFT111 - Technical Drafting I
- DFT111A - Technical Drafting I Lab
- DFT112 - Technical Drafting II
- DFT112A - Technical Drafting II Lab
- DFT152 - CAD II
- MAC121 - Introduction to CNC
- MEC231 - Computer-Aided Manufacturing I
- DFT254 - Intermediate Solid Modeling & Rendering
- MEC232 - Computer-Aided Manufacturing II
- MNT222 - Industrial Systems Schematics

Other

ACA Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Mechanical Engineering Technology
Total Degree Map Credits
76
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	9	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** MAT171 - Precalculus Algebra
- **AND** EGR125 - Applications Software for Tech
- **AND** ISC212 - Metrology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select
- MEC161 - Manufacturing Processes I
- **AND** ISC132 - Manufacturing Quality Control

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	5	0

Requirement Select
- HYD110 - Hydraulics/Pneumatics I
- **AND** EGR110 - Introduction to Engineering Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	7	0

Requirement Select

- MAT172 - Precalculus Trigonometry
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	12	0

Requirement Select

- DFT154 - Introduction to Solid Modeling
- **AND** ENG111 - Writing and Inquiry
- **AND** ISC121 - Environmental Health & Safety
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	6	0

Requirement Select

- MAC141 - Machining Applications I
- **AND** MAC141A - MacHining Applications I Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	5	0

Requirement Select

- MAC121 - Introduction to CNC
- **AND** HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	3	0

Requirement Select
- DFT151 - CAD I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	9	0

Requirement Select
- PHY131 - Physics-Mechanics
- **AND** EGR250 - Statics/Strength of Mater

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	3	0

Requirement Select
- MEC231 - Computer-Aided Manufacturing I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select
- MEC180 - Engineering Materials
- **AND** MEC232 - Computer-Aided Manufacturing II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	5	0

Requirement Select

- MEC270 - Machine Design
- **AND** MEC271 - Machine Design Project

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Understand and demonstrate basic design concepts (e.g. CNC programming, machine design).

Demonstrate knowledge of workplace safety and ethics.

Learning Outcomes

Learning Outcomes

Understand and mathematically demonstrate basic engineering-related laws and theories (e.g.. Pascal’s Law, Equilibrium).

Demonstrate competency with test instruments (e.g.. CMM, Calipers and Micrometers).

Demonstrate competency with manufacturing techniques and processes (e.g.. Material processing, process flow).

A40350 - Mechatronics Engineering Technology

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects. Course work includes mathematics, natural sciences, engineering sciences and technology. Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial and technology managers, or research technicians.

Mechatronics Engineering Technology: A course of study that prepares the students to use basic engineering principles and technical skills in developing and testing automated, servomechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures. Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement, and control systems, and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry examinations.

Department(s)

Mechatronics Engineering Technology

Credential

AAS – Associate in Applied Science

Program Code

A40350

Financial Aid Eligible

Yes

Program Contacts

Title

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Title

College Navigator

Name

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828-395-1463

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bburnett@isothermal.edu

Minimum Required Credit Hours

75

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- MAT121 - Algebra/Trigonometry I
- MAT171 - Precalculus Algebra

Humanities Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Major Requirements

Computer Applications

Type
Completion Requirement

Earn at least 3 credits from the following:

- DFT154 - Introduction to Solid Modeling

Safety Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ISC121 - Environmental Health & Safety

Major Requirements

Type
Completion Requirement

Earn at least 30 credits from the following:
- ATR112 - Introduction to Automation
- ELC117 - Motors and Controls
- ELC128 - Introduction to Programmable Logic Controller
- ELC132 - Electrical Drawings
- ELC138 - DC Circuit Analysis
- ELC139 - AC Circuit Analysis
- ELC213 - Instrumentation
- HYD110 - Hydraulics/Pneumatics I
- MEC130 - Mechanisms

Physics Requirement

Type
Completion Requirement

Earn at least 4 credits from the following:
- PHY131 - Physics-Mechanics
- PHY151 - College Physics I

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Earn at least 3 credits from the following:
- NET125 - Introduction to Networks

Group 1

Take 1 of 2 Groups

Earn at least 15 credits from the following:
- EGR250 - Statics/Strength of Mater
- ELN133 - Digital Electronics
- MAC160 - Coordinate Measuring Machines
- MEC180 - Engineering Materials

Group 2

Earn at least 12 credits from the following:
- CTI120 - Network and Security Foundations
- NET126 - Switching and Routing
- SEC110 - Security Concepts
- SEC160 - Security Administration I

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name

Mechatronics Engineering Technology

Total Degree Map Credits

75

Degree Map Effective Catalog Year

2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	11	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** MAT171 - Precalculus Algebra
- **AND** ATR112 - Introduction to Automation
- **AND** MAC160 - Coordinate Measuring Machines

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- MEC130 - Mechanisms
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select

- HYD110 - Hydraulics/Pneumatics I
- **AND** NET125 - Introduction to Networks

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	5	0

Requirement Select

- MEC180 - Engineering Materials
- **AND** ELC132 - Electrical Drawings

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	4	0

Requirement Select

- ELC117 - Motors and Controls

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	12	0

Requirement Select

- DFT154 - Introduction to Solid Modeling
- **AND** ISC121 - Environmental Health & Safety
- **AND** HUM120 - Cultural Studies
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	8	0

Requirement Select

- PHY131 - Physics-Mechanics
- **AND** ELC138 - DC Circuit Analysis

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	7	0

Requirement Select

- ELC139 - AC Circuit Analysis
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	7	0

Requirement Select

- ELN133 - Digital Electronics
- **AND** ELC128 - Introduction to Programmable Logic Controller

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	4	0

Requirement Select

- ELC213 - Instrumentation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	5	0

Requirement Select

- EGR250 - Statics/Strength of Mater

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Demonstrate an understanding of various Mechatronics systems.

Demonstrate basic digital logic principles, design and troubleshooting concepts (ex. Gate logic, digital devices).

Mathematically demonstrate basic engineering-related laws and theories (ex. Pascal's law).

Perform basic drawing techniques including sketching, lettering dimensioning, geometric construction, and orthographic projections.

Perform preventive maintenance on various industrial systems involving electronics, PLCs, robotics, sensors, actuators, fluid mechanics, instrumentation, and controls.

Demonstrate techniques used in troubleshooting problems in mechatronics systems.

Effectively describe the function of components used in closed loop systems.

A45110 - Associate Degree Nursing

Program Overview

Curriulum Description

The Associate Degree Nursing curriculum provides knowledge, skills, and strategies to integrate safety and quality into nursing care, to practice in a dynamic environment, and to meet individual needs which impact health, quality of life, and achievement of potential.

Course work includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes the nurse as a member of the interdisciplinary team providing safe, individualized care while employing evidence-based practice, quality improvement, and informatics.

Graduates of this program are eligible to apply to take the National Council Licensure Examination (NCLEX-RN). Employment opportunities are vast within the global health care system and may include positions within acute, chronic, extended, industrial, and community health care facilities.

Department(s)

Associate Degree Nursing

Credential

AAS – Associate in Applied Science

Program Code

A45110

Financial Aid Eligible

Yes

Program Contacts

Title

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Title
College Navigator

Name
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Minimum Required Credit Hours
71

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

Gen Ed Requirement

Earn at least 9 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines
- PSY150 - General Psychology

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- MUS121 - Music Theory I
- MUS122 - Music Theory II
- MUS125 - Aural Skills I
- MUS126 - Aural Skills II
- MUS225 - Aural Skills III
- MUS226 - Aural Skills IV
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Microbiology Requirement

Earn at least 4 credits from the following:

- BIO275 - Microbiology

Major Requirements

Major Requirements

Type
Completion Requirement

Earn at least 43 credits from the following:

- NUR111 - Introduction to Health Concepts
- NUR112 - Health-Illness Concepts
- NUR113 - Family Health Concepts
- NUR114 - Holistic Health Concepts
- NUR211 - Health Care Concepts
- NUR212 - Health System Concepts
- NUR213 - Complex Health Concepts

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 11 credits from the following:

- BIO168 - Anatomy and Physiology I
- BIO169 - Anatomy and Physiology II
- CHM130 - General, Organic, & Biochemistry
- CHM130A - General, Organic, & Biochemistry Lab
- CHM151 - General Chemistry I
- PSY241 - Developmental Psychology

Other

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Associate Degree Nursing
Total Degree Map Credits
71
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	8	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** BIO168 - Anatomy and Physiology I

Course Requirement Group	
Course Requirement-Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** BIO169 - Anatomy and Physiology II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- PSY150 - General Psychology
- **AND** BIO275 - Microbiology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- PSY241 - Developmental Psychology
- **AND** HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	8	0

Requirement Select

- NUR111 - Introduction to Health Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	5	0

Requirement Select

- NUR112 - Health-Illness Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	5	0

Requirement Select

- NUR113 - Family Health Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	5	0

Requirement Select

- NUR114 - Holistic Health Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	10	0

Requirement Select

- NUR211 - Health Care Concepts
- **AND** NUR212 - Health System Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	10	0

Requirement Select

- NUR213 - Complex Health Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Practice professional nursing behaviors incorporating personal responsibility and accountability for continued competence.

Communicate professionally and effectively with individuals, significant support person(s), and members of the interdisciplinary healthcare team.

Integrate knowledge of the holistic needs of the individual to provide an individual centered assessment.

Incorporate informatics to formulate evidence-based clinical judgments and management decisions.

Implement caring interventions incorporating documented best practices for individuals in diverse settings.

Develop a teaching plan for individuals, and/or the nursing team, incorporating teaching and learning principles.

Collaborate with the interdisciplinary healthcare team to advocate for positive individual and organizational outcomes.

Manage health care for the individual using cost effective nursing strategies, quality improvement processes, and current technologies.

A45110RB - Associate Degree Nursing - RIBN

Program Overview

Curriulum Description

The Associate Degree Nursing curriculum provides knowledge, skills, and strategies to integrate safety and quality into nursing care, to practice in a dynamic environment, and to meet individual needs which impact health, quality of life, and achievement of potential.

Course work includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes the nurse as a member of the interdisciplinary team providing safe, individualized care while employing evidence-based practice, quality improvement, and informatics.

Graduates of this program are eligible to apply to take the National Council Licensure Examination (NCLEX-RN). Employment opportunities are vast within the global health care system and may include positions within acute, chronic, extended, industrial, and community health care facilities.

Department(s)

Associate Degree Nursing

Credential

AAS – Associate in Applied Science

Program Code

A45110RB

Financial Aid Eligible

Yes

Program Contacts

Title
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Title
College Navigator

Name
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Email
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Minimum Required Credit Hours

75

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

Gen Ed Requirement

Earn at least 9 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in

the Disciplines
- PSY150 - General Psychology

Humanities Requirement

Students are encouraged to choose from ART-111, ART-115, MUS-110, PHI-215, PHI-240, REL-110, REL-211, REL-212

Earn at least 3 credits from the following:
- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- MUS121 - Music Theory I
- MUS122 - Music Theory II
- MUS125 - Aural Skills I
- MUS126 - Aural Skills II
- MUS225 - Aural Skills III
- MUS226 - Aural Skills IV
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Microbiology Requirement

Earn at least 4 credits from the following:
- BIO275 - Microbiology

Major Requirements

Major Requirements

Type
Completion Requirement

Earn at least 43 credits from the following:
- NUR111 - Introduction to Health Concepts
- NUR112 - Health-Illness Concepts
- NUR113 - Family Health Concepts
- NUR114 - Holistic Health Concepts
- NUR211 - Health Care Concepts
- NUR212 - Health System Concepts
- NUR213 - Complex Health Concepts

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 15 credits from the following:
- BIO168 - Anatomy and Physiology I
- BIO169 - Anatomy and Physiology II
- CHM130 - General, Organic, & Biochemistry
- CHM130A - General, Organic, & Biochemistry Lab
- CHM151 - General Chemistry I
- PSY241 - Developmental Psychology

Other

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Associate Degree Nursing - RIBN
Total Degree Map Credits
75
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	8	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** BIO168 - Anatomy and Physiology I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** BIO169 - Anatomy and Physiology II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- PSY150 - General Psychology
- **AND** BIO275 - Microbiology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- PSY241 - Developmental Psychology
- **AND** HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	4	0

Requirement Select

- CHM151 - General Chemistry I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	8	0

Requirement Select

- NUR111 - Introduction to Health Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	5	0

Requirement Select

- NUR112 - Health-Illness Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	5	0

Requirement Select

- NUR113 - Family Health Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	5	0

Requirement Select

- NUR114 - Holistic Health Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Fall	10	0

Requirement Select

- NUR211 - Health Care Concepts
- **AND** NUR212 - Health System Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 3	Spring	10	0

Requirement Select

- NUR213 - Complex Health Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Practice professional nursing behaviors incorporating personal responsibility and accountability for continued competence.

Communicate professionally and effectively with individuals, significant support person(s), and members of the interdisciplinary healthcare team.

Integrate knowledge of the holistic needs of the individual to provide an individual centered assessment.

Incorporate informatics to formulate evidence-based clinical judgments and management decisions.

Implement caring interventions incorporating documented best practices for individuals in diverse settings.

Develop a teaching plan for individuals, and/or the nursing team, incorporating teaching and learning principles.

Collaborate with the interdisciplinary healthcare team to advocate for positive individual and organizational outcomes.

Manage health care for the individual using cost effective nursing strategies, quality improvement processes, and current technologies.

A45110T - Associate Degree Nursing - LPN to ADN

Program Overview

Curriulum Description

The Associate Degree Nursing curriculum provides knowledge, skills, and strategies to integrate safety and quality into nursing care, to practice in a dynamic environment, and to meet individual needs which impact health, quality of life, and achievement of potential.

Course work includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes the nurse as a member of the interdisciplinary team providing safe, individualized care while employing evidence-based practice, quality improvement, and informatics.

Graduates of this program are eligible to apply to take the National Council Licensure Examination (NCLEX-RN). Employment opportunities are vast within the global health care system and may include positions within acute, chronic, extended, industrial, and community health care facilities.

Department(s)

Associate Degree Nursing

Credential

AAS – Associate in Applied Science

Program Code

A45110T

Financial Aid Eligible

Yes

Program Contacts

Title
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Title
College Navigator

Name
Katie Edwards

Phone
828-395-4418

Email
kedwards@isothermal.edu

Minimum Required Credit Hours

75

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

Gen Ed Requirement

Earn at least 9 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in

the Disciplines
- PSY150 - General Psychology

Humanities Requirement

Earn at least 3 credits from the following:
- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- MUS121 - Music Theory I
- MUS122 - Music Theory II
- MUS125 - Aural Skills I
- MUS126 - Aural Skills II
- MUS225 - Aural Skills III
- MUS226 - Aural Skills IV
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Microbiology Requirement

Earn at least 4 credits from the following:
- BIO275 - Microbiology

Major Requirements

Major Requirements

Type
Completion Requirement

Earn at least 43 credits from the following:
- NUR111 - Introduction to Health Concepts
- NUR112 - Health-Illness Concepts
- NUR113 - Family Health Concepts
- NUR114 - Holistic Health Concepts
- NUR211 - Health Care Concepts
- NUR212 - Health System Concepts
- NUR213 - Complex Health Concepts

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 15 credits from the following:
- BIO168 - Anatomy and Physiology I
- BIO169 - Anatomy and Physiology II
- NUR214 - Nursing Transition Concepts
- PSY241 - Developmental Psychology

Other

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Associate Degree Nursing - LPN to ADN
Total Degree Map Credits
48
Degree Map Effective Catalog Year
2025 -

Degree Map Narrative

Students must complete the following courses prior to entering this program:

NUR 111 -Introduction to Health Concepts - 8 credits

NUR 112 - Health-Illness Concepts - 5 credits

BIO 168 - Anatomy and Physiology I - 4 credits

BIO 169 - Anatomy and Physiology II - 4 credits

ENG 111 - Writing and Inquiry - 3 credits

PSY 150 - General Psychology - 3 credits

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG112 - Writing and Research in the Disciplines
- **AND** PSY241 - Developmental Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	4	0

Requirement Select

- BIO275 - Microbiology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	7	0

Requirement Select

- HUM115 - Critical Thinking
- **AND** NUR214 - Nursing Transition Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	5	0

Requirement Select

- NUR113 - Family Health Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	5	0

Requirement Select

- NUR114 - Holistic Health Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall (16 week)	10	0

Requirement Select

- NUR211 - Health Care Concepts
- **AND** NUR212 - Health System Concepts

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring (16 week)	10	0

Requirement Select

- NUR213 - Complex Health Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Practice professional nursing behaviors incorporating personal responsibility and accountability for continued competence.

Communicate professionally and effectively with individuals, significant support person(s), and members of the interdisciplinary healthcare team.

Integrate knowledge of the holistic needs of the individual to provide an individual centered assessment.

Incorporate informatics to formulate evidence-based clinical judgments and management decisions.

Implement caring interventions incorporating documented best practices for individuals in diverse settings.

Develop a teaching plan for individuals, and/or the nursing team, incorporating teaching and learning principles.

Collaborate with the interdisciplinary healthcare team to advocate for positive individual and organizational outcomes.

Manage health care for the individual using cost effective nursing strategies, quality improvement processes, and current technologies.

A45260 - Dental Hygiene

Program Overview

Curriulum Description

The Dental Hygiene curriculum provides individuals with the knowledge and skills to assess, plan, implement, and evaluate dental hygiene care for the individual and the community.

Students will learn to prepare the operatory, take patient histories, note abnormalities, plan care, teach oral hygiene, clean teeth, take x-rays, apply preventive agents, complete necessary chart entries, and perform other procedures related to dental hygiene care.

Graduates of this program may be eligible to take national and state/regional examinations for licensure which are required to practice dental hygiene. Employment opportunities include dental offices, clinics, schools, public health agencies, industry, and professional education.

Department(s)

Dental Hygiene

Credential

AAS – Associate in Applied Science

Program Code

A45260

Financial Aid Eligible

Yes

Program Contacts

Title

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Title

College Navigator

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Minimum Required Credit Hours

76

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type

Completion Requirement

English Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Social Science Requirement

Earn at least 3 credits from the following:

- PSY150 - General Psychology

Natural Sciences Requirement

Earn at least 4 credits from the following:

- CHM130 - General, Organic, & Biochemistry
- CHM130A - General, Organic, & Biochemistry Lab

Major Requirements

Required Courses

Type
Completion Requirement

Required Courses

Earn at least 47 credits from the following:

- DEN110 - Orofacial Anatomy
- DEN111 - Infection/Hazard Control
- DEN112 - Dental Radiography
- DEN120 - Dental Hygiene Preclinic Lecture
- DEN121 - Dental Hygiene Preclinical Lab
- DEN123 - Nutrition/Dental Health
- DEN124 - Periodontology
- DEN130 - Dental Hygiene Theory I
- DEN131 - Dental Hygiene Clinic I
- DEN140 - Dental Hygiene Theory II
- DEN141 - Dental Hygiene Clinic II
- DEN220 - Dental Hygiene Theory III
- DEN221 - Dental Hygiene Clinic III
- DEN222 - General & Oral Pathology
- DEN223 - Dental Pharmacology
- DEN224 - Materials and Procedures
- DEN230 - Dental Hygiene Theory IV
- DEN231 - Dental Hygiene Clinic IV
- DEN232 - Community Dental Health
- DEN233 - Professional Development

Microbiology Requirement

Earn at least 4 credits from the following:

- BIO275 - Microbiology

Biology Requirement

Earn at least 4 credits from the following:

- BIO163 - Basic Anatomy & Physiology
- BIO168 - Anatomy and Physiology I

Other Major Requirements

Other Required Courses

Type
Completion Requirement

Earn at least 5 credits from the following:

- ACA122 - Transfer & Career Success
- DEN125 - Dental Office Emergencies
- SOC210 - Introduction to Sociology

Continuously perform self-assessment for life-long learning and professional growth.

Demonstrate allegiance to the profession through service activities and affiliations with professional organizations.

Learning Outcomes

Learning Outcomes

Provide hygiene care to a diverse patient pool in a professional, ethical, legal and humane manner.

Integrate infection control techniques.

Prepare high-grade, radiographic images used in diagnostics.

Perform appropriate life-saving measures for medical emergencies in a dental setting.

Provide accurate, consistent and thorough documentation throughout the dental hygiene process.

Use critical thinking and quality assurance mechanisms in provision of evidence-based care.

A45340 - Emergency Medical Science

Program Overview

Curriulum Description

The Emergency Medical Science curriculum is designed to prepare graduates to enter the workforce as paramedics. Additionally, the program can provide an Associate Degree for individuals desiring an opportunity for career enhancement.

The course of study provides the student an opportunity to acquire basic and advanced life support knowledge and skills by utilizing classroom instruction, practical laboratory sessions, hospital clinical experience, and field internships with emergency medical service agencies.

Students progressing through the program may be eligible to apply for both state and national certification exams. Employment opportunities include ambulance services, fire and rescue agencies, air medical services, specialty areas of hospitals, industry, educational institutions, and government agencies.

Department(s)

Emergency Medical Science

Credential

AAS – Associate in Applied Science

Program Code

A45340

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title

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Title

College Navigator

Name

Melissa Tenpenny

Phone

828-395-1606

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mtenpenny@isothermal.edu

Minimum Required Credit Hours

71

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type

Completion Requirement

English Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM230 - Leadership Development
- MUS110 - Music Appreciation

Math/Natural Science Requirement

Earn at least 3 credits from the following:

- BIO110 - Principles of Biology
- BIO111 - General Biology I
- CHM151 - General Chemistry I
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra
- PHY151 - College Physics I

Social Science Requirement

Earn at least 3 credits from the following:

- PSY150 - General Psychology
- SOC210 - Introduction to Sociology

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 49 credits from the following:

- BIO169 - Anatomy and Physiology II
- EMS110 - EMT
- EMS122 - EMS Clinical Practicum I
- EMS130 - Pharmacology
- EMS131 - Advanced Airway Management
- EMS160 - Cardiology I
- EMS220 - Cardiology II
- EMS221 - EMS Clinical Practicum II
- EMS231 - EMS Clinical Practicum III
- EMS240 - Patients With Special Challenges
- EMS241 - EMS Clinical Practicum IV
- EMS250 - Medical Emergencies
- EMS260 - Trauma Emergencies
- EMS270 - Life Span Emergencies
- EMS285 - EMS Capstone

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Earn at least 6 credits from the following:

- BIO168 - Anatomy and Physiology I
- EMS235 - EMS Management

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Emergency Medical Science Degree
Total Degree Map Credits
26
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative

Students will receive credit for the following credit when they submit a valid copy of the following certifications.

Certifications:

- Basic Life Support certification
- Advanced Cardiac Life Support certification
- Pediatric Advanced Life Support certification
- International Trauma Life Support certification (ITLS) or Pre-Hospital Trauma Life Support certification (PHTLS)

Credits awarded for certifications (45 credits):

- EMS-110
- EMS-122
- EMS-130
- EMS-131
- EMS-160
- EMS-220
- EMS-221
- EMS-231
- EMS-240
- EMS-241
- EMS-250
- EMS-260
- EMS-270
- EMS-285

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	8	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** BIO168 - Anatomy and Physiology I
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select

- PSY150 - General Psychology
- **AND** BIO169 - Anatomy and Physiology II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	5	0

Requirement Select

- EMS235 - EMS Management
- **AND** MAT143 - Quantitative Literacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Analyze the complex nature and seriousness of the patient’s condition or extent of injuries to assess the need for advanced emergency medical care.

Perform complex medical care based on assessment findings of the patient’s condition and/or situation.

Integrate emerging trends in pre-hospital care.

Understand the principles of managing emergency medical service delivery systems.

Integrate human anatomy and physiology principles with EMS procedures.

A45380 - Social and Human Services

Program Overview

Curriulum Description

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

Department(s)

Social and Human Services

Credential

AAS – Associate in Applied Science

Program Code

A45380

Financial Aid Eligible

Yes

Program Contacts

Title
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Title
College Navigator

Name
Tina Porter

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tporter@isothermal.edu

Minimum Required Credit Hours
65

Degree Requirements

Learning Outcomes

Learning Outcomes

Interview clients and document appropriately.

Communicate effectively with clients, service providers, and other professionals.

Recognize crises and initiate crisis intervention model.

Make appropriate referrals to community agencies.

Model professional behaviors, team work, and ethics in a variety of settings.

Reason through a variety of human services issues.

A45380A - Social and Human Services - Addiction & Recovery

Program Overview

Curriulum Description

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

Department(s)

Social and Human Services

Credential

AAS – Associate in Applied Science

Program Code

A45380A

Financial Aid Eligible

Yes

Program Contacts

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Title
College Navigator

Name
Tina Porter

Phone
828-395-1621

Email
tporter@isothermal.edu

Minimum Required Credit Hours

70

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirement

Complete ALL of the following Courses:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Earn at least 3 credits from the following:

- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO168 - Anatomy and Physiology I
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART115 - Art History Survey II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Social Science Requirement

Complete ALL of the following Courses:

- SOC210 - Introduction to Sociology

Major Requirements

Major Requirements

Type

Completion Requirement

Required Courses

Earn at least 21 credits from the following:

- HSE110 - Introduction to Human Services
- HSE123 - Interviewing Techniques for Human Services
- HSE210 - Diversity, Ethics, and Trends in Human Services
- HSE212 - Group Dynamics
- HSE220 - Case Management
- HSE223 - Counseling Theories & Skills
- HSE225 - Crisis and Intervention Principles

Required Subject - Psychology

Earn at least 6 credits from the following:

- PSY150 - General Psychology
- PSY241 - Developmental Psychology

Required Subject - Sociology

Earn at least 3 credits from the following:

- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Required Track

Earn at least 15 credits from the following:

- SAB110 - Intro to Addiction & Recovery Studies
- SAB120 - Intake and Assessment
- SAB135 - Addictive Process
- SAB210 - Addiction & Recovery Counseling
- SAB240 - Diversity, Ethics, & Trends in Addiction & Recovery

Other Major Requirements

Earn at least 8 credits from the following:

- CAS110 - Perspectives on Child Maltreatment and Advocacy
- CIS110 - Introduction to Computers
- HSE245 - Stress Management
- PSY281 - Abnormal Psychology
- WBL111 - Work-Based Learning I
- WBL115 - Work-Based Learning Seminar I

Other

ACA Requirement

Type
Completion Requirement

Complete ALL of the following Courses:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Social and Human Services - Addiction and Recovery
Total Degree Map Credits
70
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** SAB110 - Intro to Addiction & Recovery Studies
- **AND** HSE212 - Group Dynamics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- HSE110 - Introduction to Human Services
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select

- SAB210 - Addiction & Recovery Counseling
- **AND** HSE210 - Diversity, Ethics, and Trends in Human Services
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- SAB135 - Addictive Process
- **AND** HSE225 - Crisis and Intervention Principles

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	4	0

Requirement Select

- BIO110 - Principles of Biology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- SAB240 - Diversity, Ethics, & Trends in Addiction & Recovery
- **AND** HSE123 - Interviewing Techniques for Human Services
- **AND** PSY241 - Developmental Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- SAB120 - Intake and Assessment
- **AND** HSE220 - Case Management
- **AND** CAS110 - Perspectives on Child Maltreatment and Advocacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	2	0

Requirement Select

- WBL111 - Work-Based Learning I
- **AND** WBL115 - Work-Based Learning Seminar I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- HSE223 - Counseling Theories & Skills
- **AND** SOC210 - Introduction to Sociology
- **AND** REL110 - World Religions

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- COM231 - Public Speaking
- **AND** HSE245 - Stress Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Summer	3	0

Requirement Select

- SOC220 - Social Problems

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Interview clients and document appropriately.

Communicate effectively with clients, service providers, and other professionals.

Recognize crises and initiate crisis intervention model.

Make appropriate referrals to community agencies.

Model professional behaviors, team work, and ethics in a variety of settings.

Reason through a variety of human services issues.

Demonstrate proficiency in the 12 core functions of addiction counseling

Identify behavioral and substance addictions and associated standard treatment modalities

A45380C - Social and Human Services - Child Advocacy Studies

Program Overview

Curriulum Description

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

Department(s)

Social and Human Services

Credential

AAS – Associate in Applied Science

Program Code

A45380C

Program Contacts

Title

Faculty Mentor

Name

Kimberly Snyder

Phone

828-395-4165

Email

ksnyder@isothermal.edu

Title

College Navigator

Name

Tina Porter

Phone

828-395-1621

Email

mtenpenny@isothermal.edu

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type

Completion Requirement

English Requirement

Complete ALL of the following Courses:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Earn at least 3 credits from the following:

- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO168 - Anatomy and Physiology I
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART115 - Art History Survey II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Social Science Requirement

Complete ALL of the following Courses:

- SOC210 - Introduction to Sociology

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 21 credits from the following:

- HSE110 - Introduction to Human Services
- HSE123 - Interviewing Techniques for Human Services
- HSE210 - Diversity, Ethics, and Trends in Human Services
- HSE212 - Group Dynamics
- HSE220 - Case Management
- HSE223 - Counseling Theories & Skills
- HSE225 - Crisis and Intervention Principles

Required Subject - Psychology

Earn at least 6 credits from the following:

- PSY150 - General Psychology
- PSY241 - Developmental Psychology

Required Subject - Sociology

Earn at least 3 credits from the following:

- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Required Track

Earn at least 12 credits from the following:

- CAS110 - Perspectives on Child

Maltreatment and Advocacy
- CAS120 - Cultural Awareness in Child Maltreatment & Advocacy
- CAS210 - Professional & Systems Responses to Child Maltreatment
- CAS220 - Responding to the Survivor of Child Abuse

Other Major Requirements

Earn at least 6 credits from the following:
- HSE245 - Stress Management
- POL120 - American Government
- PSY281 - Abnormal Psychology

Other

ACA Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Social and Human Services - Child Advocacy Studies Degree
Total Degree Map Credits
65
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** HSE123 - Interviewing Techniques for Human Services
- **AND** HSE212 - Group Dynamics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select
- ENG111 - Writing and Inquiry
- **AND** HSE110 - Introduction to Human Services

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select

- HSE210 - Diversity, Ethics, and Trends in Human Services
- **AND** HSE223 - Counseling Theories & Skills
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- HSE225 - Crisis and Intervention Principles
- **AND** SOC213 - Sociology of the Family

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	7	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- CAS120 - Cultural Awareness in Child Maltreatment & Advocacy
- **AND** SOC210 - Introduction to Sociology
- **AND** PSY241 - Developmental Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	6	0

Requirement Select

- CAS110 - Perspectives on Child Maltreatment and Advocacy
- **AND** HSE220 - Case Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- CAS210 - Professional & Systems Responses to Child Maltreatment
- **AND** REL110 - World Religions
- **AND** POL120 - American Government

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- CAS220 - Responding to the Survivor of Child Abuse
- **AND** HSE245 - Stress Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Interview clients and document appropriately.

Communicate effectively with clients, service providers, and other professionals.

Recognize crises and initiate crisis intervention model.

Make appropriate referrals to community agencies.

Model professional behaviors, team work, and ethics in a variety of settings.

Reason through a variety of human services issues.

A45380E - Social and Human Services - Equine Assisted Interactions

Program Overview

Curriulum Description

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

Department(s)

Social and Human Services

Credential

AAS – Associate in Applied Science

Program Code

A45380E

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

Name
Kimberly Snyder

Phone
828-395-4165

Email
ksnyder@isothermal.edu

Title
College Navigator

Name
Tina Porter

Phone
828-395-1621

Email
tporter@isothermal.edu

Minimum Required Credit Hours
67

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirement

Complete ALL of the following Courses:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Earn at least 3 credits from the following:

- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO168 - Anatomy and Physiology I
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART115 - Art History Survey II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New

Testament

Social Science Requirement

Complete ALL of the following Courses:

- SOC210 - Introduction to Sociology

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 21 credits from the following:

- HSE110 - Introduction to Human Services
- HSE123 - Interviewing Techniques for Human Services
- HSE210 - Diversity, Ethics, and Trends in Human Services
- HSE212 - Group Dynamics
- HSE220 - Case Management
- HSE223 - Counseling Theories & Skills
- HSE225 - Crisis and Intervention Principles

Required Subject - Psychology

Earn at least 6 credits from the following:

- PSY150 - General Psychology
- PSY241 - Developmental Psychology

Required Subject - Sociology

Earn at least 3 credits from the following:

- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Required Track

Earn at least 15 credits from the following:

- EQU110 - Introduction to Therapeutic Horsemanship
- EQU115 - Principles of Equine Assisted Activities
- EQU125 - Equine Behavior
- EQU210 - Training the Therapeutic Horse
- EQU215 - Equine Assisted Activities-Teaching

Other Major Requirements

Earn at least 6 credits from the following:

- CAS110 - Perspectives on Child Maltreatment and Advocacy
- CIS110 - Introduction to Computers
- DDT110 - Intellectual & Developmental Disabilities
- HSE245 - Stress Management
- PSY281 - Abnormal Psychology

Other

ACA Requirement

Type
Completion Requirement

Complete ALL of the following Courses:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Social and Human Services - Equine Assisted Interactions
Total Degree Map Credits
68
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** EQU110 - Introduction to Therapeutic Horsemanship
- **AND** HSE110 - Introduction to Human Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select
- EQU115 - Principles of Equine Assisted Activities
- **AND** ENG111 - Writing and Inquiry
- **AND** CAS110 - Perspectives on Child Maltreatment and Advocacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select
- EQU125 - Equine Behavior
- **AND** EQU215 - Equine Assisted Activities-Teaching
- **AND** REL110 - World Religions

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- EQU210 - Training the Therapeutic Horse
- **AND** EQU215 - Equine Assisted Activities-Teaching

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	7	0

Requirement Select

- BIO168 - Anatomy and Physiology I
- **AND** SOC210 - Introduction to Sociology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- HSE123 - Interviewing Techniques for Human Services
- **AND** HSE212 - Group Dynamics
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	6	0

Requirement Select

- HSE220 - Case Management
- **AND** PSY241 - Developmental Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- HSE210 - Diversity, Ethics, and Trends in Human Services
- **AND** HSE223 - Counseling Theories & Skills
- **AND** DDT110 - Intellectual & Developmental Disabilities

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- HSE225 - Crisis and Intervention Principles
- **AND** SOC220 - Social Problems

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0

Total Minor Credits	Total Elective Credits
0	0

Learning Outcomes

Learning Outcomes

Interview clients and document appropriately.

Communicate effectively with clients, service providers, and other professionals.

Recognize crises and initiate crisis intervention model.

Make appropriate referrals to community agencies.

Model professional behaviors, team work, and ethics in a variety of settings.

Reason through a variety of human services issues.

Examine careers and industry recognized certifications in equine-assisted services and activities

Explain equine behavior and physical make-up

A45380G - Social and Human Services - General

Program Overview

Curriulum Description

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

Department(s)

Social and Human Services

Credential

AAS – Associate in Applied Science

Program Code

A45380G

Financial Aid Eligible

Yes

Program Contacts

Title

Faculty Mentor

Name

Kimberly Snyder

Phone

828-395-4165

Email

ksnyder@isothermal.edu

Title

College Navigator

Name

Tina Porter

Phone

828-395-1621

Email

tporter@isothermal.edu

Minimum Required Credit Hours

64

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type

Completion Requirement

English Requirement

Complete ALL of the following Courses:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Earn at least 3 credits from the following:

- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO168 - Anatomy and Physiology I
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART115 - Art History Survey II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Social Science Requirement

Complete ALL of the following Courses:

- SOC210 - Introduction to Sociology

Major Requirements

Major Requirements

Type

Completion Requirement

Required Courses

Earn at least 21 credits from the following:

- HSE110 - Introduction to Human Services
- HSE123 - Interviewing Techniques for Human Services
- HSE210 - Diversity, Ethics, and Trends in Human Services
- HSE212 - Group Dynamics
- HSE220 - Case Management
- HSE223 - Counseling Theories & Skills
- HSE225 - Crisis and Intervention Principles

Required Subject - Psychology

Earn at least 6 credits from the following:

- PSY150 - General Psychology
- PSY241 - Developmental Psychology

Required Subject - Sociology

Earn at least 3 credits from the following:

- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Required Track

Earn at least 12 credits from the following:

- DDT110 - Intellectual & Developmental Disabilities
- HSE145 - Abuse & Neglect
- HSE245 - Stress Management
- SAB110 - Intro to Addiction & Recovery Studies

Other Major Requirements

Earn at least 6 credits from the following:

- AAI110 - Intro to Animal Assisted Interactions
- CIS110 - Introduction to Computers
- EQU110 - Introduction to Therapeutic Horsemanship
- HEA110 - Personal Health/Wellness
- POL120 - American Government
- PSY281 - Abnormal Psychology

Other

ACA Requirement

Type
Completion Requirement

Complete ALL of the following Courses:

- ACA122 - Transfer & Career Success

Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** HSE212 - Group Dynamics
- **AND** HSE123 - Interviewing Techniques for Human Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Degree Maps

Degree Map Name
Social and Human Services - General
Total Degree Map Credits
65

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** HSE110 - Introduction to Human Services

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select

- HSE210 - Diversity, Ethics, and Trends in Human Services
- **AND** HSE223 - Counseling Theories & Skills
- **AND** DDT110 - Intellectual & Developmental Disabilities

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- HSE225 - Crisis and Intervention Principles
- **AND** HSE245 - Stress Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	7	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** SOC210 - Introduction to Sociology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- SAB110 - Intro to Addiction & Recovery Studies
- **AND** PSY150 - General Psychology
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	6	0

Requirement Select

- HSE220 - Case Management
- **AND** CAS110 - Perspectives on Child Maltreatment and Advocacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- PSY241 - Developmental Psychology
- **AND** HUM115 - Critical Thinking
- **AND** SOC220 - Social Problems

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- POL120 - American Government
- **AND** PSY281 - Abnormal Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Interview clients and document appropriately.

Communicate effectively with clients, service providers, and other professionals.

Recognize crises and initiate crisis intervention model.

Make appropriate referrals to community agencies.

Model professional behaviors, team work, and ethics in a variety of settings.

Reason through a variety of human services issues.

A45380S - Social and Human Services - Small Animal Assisted Interactions

Program Overview

Curriulum Description

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

Department(s)

Social and Human Services

Credential

AAS – Associate in Applied Science

Program Code

A45380S

Financial Aid Eligible

Yes

Program Contacts

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College Navigator

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Minimum Required Credit Hours
64

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirement

Complete ALL of the following Courses:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Earn at least 3 credits from the following:

- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO168 - Anatomy and Physiology I
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART115 - Art History Survey II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New

Testament

Social Science Requirement

Complete ALL of the following Courses:

- SOC210 - Introduction to Sociology

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 21 credits from the following:

- HSE110 - Introduction to Human Services
- HSE123 - Interviewing Techniques for Human Services
- HSE210 - Diversity, Ethics, and Trends in Human Services
- HSE212 - Group Dynamics
- HSE220 - Case Management
- HSE223 - Counseling Theories & Skills
- HSE225 - Crisis and Intervention Principles

Required Subject - Psychology

Earn at least 6 credits from the following:

- PSY150 - General Psychology
- PSY241 - Developmental Psychology

Required Subject - Sociology

Earn at least 3 credits from the following:

- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Required Track

Earn at least 12 credits from the following:

- AAI110 - Intro to Animal Assisted Interactions
- AAI120 - Animals in Human Lives
- AAI130 - Animal Handling Skills
- AAI230 - Interaction Methodology & Documentation

Other Major Requirements

Earn at least 6 credits from the following:

- CIS110 - Introduction to Computers
- DDT110 - Intellectual & Developmental Disabilities
- HSE245 - Stress Management
- PSY281 - Abnormal Psychology
- SAB110 - Intro to Addiction & Recovery Studies

Other

ACA Requirement

Type
Completion Requirement

Complete ALL of the following Courses:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name

Social and Human Services - Small Animal Assisted Interactions

Total Degree Map Credits

65

Degree Map Effective Catalog Year

2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** AAI110 - Intro to Animal Assisted Interactions
- **AND** HSE110 - Introduction to Human Services

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- AAI120 - Animals in Human Lives
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	3	0

Requirement Select

- AAI130 - Animal Handling Skills

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select

- HSE210 - Diversity, Ethics, and Trends in Human Services
- **AND** HSE223 - Counseling Theories & Skills

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- AAI230 - Interaction Methodology & Documentation
- **AND** HSE225 - Crisis and Intervention Principles

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	7	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- HSE123 - Interviewing Techniques for Human Services
- **AND** HSE212 - Group Dynamics
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	6	0

Requirement Select

- HSE220 - Case Management
- **AND** PSY241 - Developmental Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	6	0

Requirement Select

- DDT110 - Intellectual & Developmental Disabilities
- **AND** REL110 - World Religions

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	9	0

Requirement Select

- SOC210 - Introduction to Sociology
- **AND** HSE245 - Stress Management
- **AND** SOC220 - Social Problems

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Interview clients and document appropriately.

Communicate effectively with clients, service providers, and other professionals.

Recognize crises and initiate crisis intervention model.

Make appropriate referrals to community agencies.

Model professional behaviors, team work, and ethics in a variety of settings.

Reason through a variety of human services issues.

Interpret contraindicators as it relates to animal assisted services

Practice animal assisted services within professional guidelines

A50150 - Computer-Aided Drafting Technology

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects. Course work includes mathematics, natural sciences, engineering sciences and technology. Graduates should qualify to obtain occupations such as technical service providers, engineering technicians, CAD systems managers, industrial and technology managers, research technicians and graphic technicians.

Computer-Aided Drafting Technology: A course of study that prepares the students to apply technical skills and advanced computer software and hardware to develop plans and related documentation, and manage the hardware and software of a CAD system. Includes instruction in architectural drafting, computer-assisted drafting and design (CADD), creating and managing two and three-dimensional models, linking CAD documents to other software applications, and operating systems. Graduates should qualify for CAD jobs in architectural and engineering consulting firms and industrial design businesses.

Department(s)

Computer-Aided Drafting

Credential

AAS – Associate in Applied Science

Program Code

A50150

Financial Aid Eligible

Yes

Program Contacts

Title
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Bobbi Hodge

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828-395-4325

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Title
College Navigator

Name
Brandon Burnett

Phone
828-395-1463

Email
bburnett@isothermal.edu

Minimum Required Credit Hours
65

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Mathematics Requirement

Earn at least 3 credits from the following:

- MAT110 - Mathematical Measurement and Literacy
- MAT121 - Algebra/Trigonometry I
- MAT171 - Precalculus Algebra

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New

Testament

Social Science Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 12 credits from the following:

- DFT151 - CAD I
- DFT152 - CAD II
- DFT153 - CAD III
- DFT154 - Introduction to Solid Modeling

Required Program Major

Earn at least 12 credits from the following:

- DFT111 - Technical Drafting I
- DFT111A - Technical Drafting I Lab
- DFT112 - Technical Drafting II
- DFT112A - Technical Drafting II Lab
- DFT170 - Engineering Graphics
- DFT254 - Intermediate Solid Modeling & Rendering

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 25 credits from the following:

- ARC111 - Introduction to Architectural Technology
- ARC112 - Construction Materials & Methods
- ARC114 - Architectural CAD
- BPR111 - Print Reading
- BPR130 - Print Reading-Construction
- CIS110 - Introduction to Computers
- CST131 - OSHA/Safety/Certification
- EGR110 - Introduction to Engineering Technology
- ISC121 - Environmental Health & Safety
- ISC132 - Manufacturing Quality Control
- MAC121 - Introduction to CNC
- MEC161 - Manufacturing Processes I
- MEC180 - Engineering Materials
- MEC231 - Computer-Aided Manufacturing I
- MEC232 - Computer-Aided Manufacturing II
- MNT222 - Industrial Systems Schematics
- EGR125 - Applications Software for

Tech
- ARC131 - Building Codes
- HYD110 - Hydraulics/Pneumatics I
- WBL111 - Work-Based Learning I
- WBL112 - Work-Based Learning I
- WBL113 - Work-Based Learning I
- CIV240 - Project Management
- MAC141 - Machining Applications I
- MAC141A - MacHining Applications I Lab
- CIV125 - Civil/Surveying CAD

ACA Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Computer-Aided Drafting Technology Degree
Total Degree Map Credits
65
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** MAT110 - Mathematical Measurement and Literacy
- **AND** DFT111 - Technical Drafting I
- **AND** DFT111A - Technical Drafting I Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	7	0

Requirement Select
- DFT151 - CAD I
- **AND** BPR111 - Print Reading
- **AND** EGR125 - Applications Software for Tech

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year	Spring Term 1 (8 week)	**Credits** 6	**Credits** 0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** DFT112 - Technical Drafting II
- **AND** DFT112A - Technical Drafting II Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	**Semester**	**Actual Credits**	**Progress Credits**
Year 1	Spring Term 2 (8 week)	8	0

Requirement Select

- DFT152 - CAD II
- **AND** DFT170 - Engineering Graphics
- **AND** ARC114 - Architectural CAD

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	**Semester**	**Actual Credits**	**Progress Credits**
Year 1	Summer		

	6	0

Requirement Select

- DFT154 - Introduction to Solid Modeling
- **AND** CIV240 - Project Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	**Semester**	**Actual Credits**	**Progress Credits**
Year 2	Fall (16 week)	3	0

Requirement Select

- ARC111 - Introduction to Architectural Technology

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	**Semester**	**Actual Credits**	**Progress Credits**
Year 2	Fall Term 1 (8 week)	6	0

Requirement Select

- COM231 - Public Speaking
- **AND** MEC161 - Manufacturing Processes I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2 (8 week)	6	0

Requirement Select

- DFT153 - CAD III
- **AND** ART111 - Art Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1 (8 week)	10	0

Requirement Select

- HIS111 - World Civilizations I
- **AND** ARC112 - Construction Materials & Methods
- **AND** MEC231 - Computer-Aided Manufacturing I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	6	0

Requirement Select

- BPR130 - Print Reading-Construction
- **AND** DFT254 - Intermediate Solid Modeling & Rendering

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0

Total Minor Credits	Total Elective Credits
0	0

Learning Outcomes

Learning Outcomes

Utilize standard drafting instruments and equipment, including computers and software

Understand and perform basic drawing principles including sketching, lettering dimensioning, geometric construction and orthographic projections

Produce advanced level drawings including section views, auxiliary views, and assembly drawings for construction and manufacturing

Produce detailed working drawings adhering to standards and guidelines based on physical design parameters

Interpret and apply basic geometric dimensioning and tolerancing principles to mechanical drawings and prints

Create residential/commercial building plans from given data using a CAD system and utilize technology to present designs with written and visual documents

Apply the general steps of the design process to generate a logical plan of action for the design of a new or improved innovative product and produce a technical report communication the purpose of both the product and design process

Design a product for manufacturability or mock-up construction

A50210 - Computer-Integrated Machining

Program Overview

Curriulum Description

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

Department(s)

Computer Integrated Machining

Credential

AAS – Associate in Applied Science

Program Code

A50210

Financial Aid Eligible

Yes

Program Contacts

Title

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Title

College Navigator

Name

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Phone

828-395-1463

Email

bburnett@isothermal.edu

Minimum Required Credit Hours

72

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type

Completion Requirement

English Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Math Requirement

Earn at least 3 credits from the following:

- MAT110 - Mathematical Measurement and Literacy
- MAT121 - Algebra/Trigonometry I

Social Science Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Major Requirements

Major Requirements

Type

Completion Requirement

Core Requirements

Earn at least 16 credits from the following:

- BPR111 - Print Reading
- MAC121 - Introduction to CNC
- MAC124 - CNC Milling
- MAC141 - Machining Applications I
- MAC142 - Machining Applications II
- MEC110 - Introduction to CAD/CAM

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 32 credits from the following:

- DFT151 - CAD I
- MAC113 - Machining Technology III
- MAC122 - CNC Turning
- MAC126 - CNC Metal Fabrication
- MAC141A - MacHining Applications I Lab
- MAC142A - Machining Applications II Lab
- MAC222 - Advanced CNC Turning
- MAC224 - Advanced CNC Milling
- MAC233 - Appl in CNC Machining
- MEC231 - Computer-Aided Manufacturing I

Earn at least 8 credits from the following:

- AUT211 - Automotive Machining
- CIS110 - Introduction to Computers
- DFT152 - CAD II
- DFT154 - Introduction to Solid Modeling
- EGR125 - Applications Software for Tech
- ISC121 - Environmental Health & Safety
- MAC114 - Introduction to Metrology
- MAC118 - Machine Shop Basic
- MAC171 - Measure/Material and Safety
- MAC232 - CAM: Computer Numerical Control Milling
- MAC234 - Advanced Multi-Axis Machining
- MAC234A - Advanced Multi-Axis MacHining Lab
- MEC232 - Computer-Aided Manufacturing II
- WLD112 - Basic Welding Processes

Other

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Computer Integrated Machining
Total Degree Map Credits
71
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	6	0

Requirement Select

- MAC141 - Machining Applications I
- **AND** MAC141A - MacHining Applications I Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1		

	(8 week)	4	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** MAC171 - Measure/Material and Safety
- **AND** BPR111 - Print Reading

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	8	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** MAC121 - Introduction to CNC
- **AND** DFT151 - CAD I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	6	0

Requirement Select

- MAC142 - Machining Applications II
- **AND** MAC142A - Machining Applications II Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	5	0

Requirement Select

- MEC110 - Introduction to CAD/CAM
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	5	0

Requirement Select

- MAC124 - CNC Milling
- **AND** MAT110 - Mathematical Measurement and Literacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	10	0

Requirement Select

- MAC113 - Machining Technology III
- **AND** MAC122 - CNC Turning
- **AND** MAC126 - CNC Metal Fabrication

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	6	0

Requirement Select

- MAC222 - Advanced CNC Turning
- **AND** AUT211 - Automotive Machining

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2 (8 week)	5	0

Requirement Select

- MAC224 - Advanced CNC Milling
- **AND** ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring (16 week)	6	0

Requirement Select

- MAC233 - Appl in CNC Machining

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1 (8 week)	7	0

Requirement Select

- HUM170 - The Holocaust
- **AND** MAC234 - Advanced Multi-Axis Machining
- **AND** MAC234A - Advanced Multi-Axis MacHining Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	3	0

Requirement Select

- MEC231 - Computer-Aided Manufacturing I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits 0	**Total Major Credits** 0
Total Minor Credits 0	**Total Elective Credits** 0

Learning Outcomes

Learning Outcomes

Evaluate a basic blueprint using specified NIMS tolerances and industry standards.

Identify work orders and write out or modify as needed correctly, calculate information needed to machine parts to correct specs.

Develop a CNC programmed part without the assistance of CAD.

Construct input milling by properties, and simulate cutting operation of 3-D surface and solid modeling features by computer-assisted methods.

Evaluate machining process during cutting operation and adjust initial variable settings to achieve maximum results.

Create a multiple part mechanism which requires both CNC milling and turning to manufacture a capstone.

A50240 - Industrial Systems Technology

Program Overview

Curriulum Description

The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to safely service, maintain, repair, or install equipment. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial systems.

Students will learn multi-craft technical skills in print reading, mechanical systems maintenance, electricity, hydraulics/pneumatics, welding, machining or fabrication, and includes various diagnostic and repair procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of this curriculum, graduates should be able to individually, or with a team, safely install, inspect, diagnose, repair, and maintain industrial process and support equipment. Students will also be encouraged to develop their skills as life-long learners.

Department(s)

Industrial Systems Technology

Credential

AAS – Associate in Applied Science

Program Code

A50240

Financial Aid Eligible

Yes

Program Contacts

Title
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Title
College Navigator

Name
Marin Clontz

Phone
828-395-1606

Email
mclontz@isothermal.edu

Minimum Required Credit Hours
74

Degree Requirements

Simple Requirements

General Education

General Education Requirement

Type
Completion Requirement

English Requirement

Complete ALL of the following Courses:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- GEO111 - World Regional Geography

- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Earn at least 3 credits from the following:

- MAT110 - Mathematical Measurement and Literacy
- MAT121 - Algebra/Trigonometry I
- MAT171 - Precalculus Algebra

Major Requirements

Major Requirements

Type
Completion Requirement

Core Requirements

Complete ALL of the following Courses:

- BPR111 - Print Reading
- ELC112 - DC/AC Electricity
- HYD110 - Hydraulics/Pneumatics I
- ISC121 - Environmental Health & Safety
- MAC141 - Machining Applications I
- MNT110 - Introduction to Maintenance Procedures
- WLD112 - Basic Welding Processes

Required Subject

Complete ALL of the following Courses:

- ELC128 - Introduction to Programmable Logic Controller
- MAC142 - Machining Applications II
- MNT222 - Industrial Systems Schematics

Technical Elective

Earn at least 3 credits from the following:

- BPR130 - Print Reading-Construction
- ELC113 - Residential Wiring
- ELC138 - DC Circuit Analysis
- ISC132 - Manufacturing Quality Control
- MAC233 - Appl in CNC Machining
- MEC161 - Manufacturing Processes I
- MEC180 - Engineering Materials
- MEC231 - Computer-Aided Manufacturing I
- WLD115 - SMAW (Stick) Plate

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Maximum of 9 credits per subject

Earn at least 25 credits from the following:

- AHR110 - Introduction to Refrigeration
- AHR120 - HVACR Maintenance
- AHR151 - HVAC Duct Systems I
- AHR211 - Residential System Design
- ATR211 - Robot Programming
- BPR130 - Print Reading-Construction
- CMT120 - Codes and Inspections
- ELC114 - Commercial Wiring
- ELC115 - Industrial Wiring
- ELC117 - Motors and Controls

- ELC139 - AC Circuit Analysis
- MAC141A - MacHining Applications I Lab
- MAC142A - Machining Applications II Lab
- PLU115 - Basic Plumbing
- PLU211 - Commercial/Ind Plumbing
- WOL110 - Basic Construction Skills
- WBL111 - Work-Based Learning I
- ELN131 - Analog Electronics I
- ELN133 - Digital Electronics
- ELN231 - Industrial Controls
- WLD116 - SMAW (stick) Plate/Pipe
- WLD121 - GMAW (MIG) FCAW/Plate
- WLD131 - GTAW (TIG) Plate
- WLD110 - Cutting Processes

Other

ACA Requirement

Type
Completion Requirement

ACA Requirement

Complete ALL of the following Courses:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Industrial Systems Technology
Total Degree Map Credits
75
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	6	0

Requirement Select
- MAC141 - Machining Applications I
- **AND** MAC141A - MacHining Applications I Lab

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	3	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** BPR111 - Print Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select

- ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	6	0

Requirement Select

- MAC142 - Machining Applications II
- **AND** MAC142A - Machining Applications II Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select

- MAT110 - Mathematical Measurement and Literacy
- **AND** BPR130 - Print Reading-Construction

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	14	0

Requirement Select

- MNT110 - Introduction to Maintenance Procedures
- **AND** HYD110 - Hydraulics/ Pneumatics I
- **AND** WLD112 - Basic Welding Processes
- **AND** ISC121 - Environmental Health & Safety
- **AND** ELC115 - Industrial Wiring

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	14
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	5	0

Requirement Select

- ELC112 - DC/AC Electricity

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	6	0

Requirement Select

- MNT222 - Industrial Systems Schematics
- **AND** PLU115 - Basic Plumbing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	6	0

Requirement Select

- PLU211 - Commercial/Ind Plumbing
- **AND** WOL110 - Basic Construction Skills

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	8	0

Requirement Select

- ELC114 - Commercial Wiring
- **AND** ELC117 - Motors and Controls

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	6	0

Requirement Select

- ELC128 - Introduction to Programmable Logic Controller
- **AND** ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	3	0

Requirement Select

- HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Understand and mathematically demonstrate basic engineering-related laws and theories (e.g. Pascal's Law, Equilibrium).

Demonstrate competency with test instruments (e.g. CMM, Calipers and Micrometers).

Understand and can demonstrate basic maintenance practices.

Demonstrate knowledge of workplace safety and ethics.

Demonstrate an understanding of the disciplines specific and critical for the safe and reasonable practice of welding.

A50420 - Welding Technology

Program Overview

Curriulum Description

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses in math, blueprint reading, metallurgy, welding inspection, and destructive and non-destructive testing provides the student with industry-standard skills developed through classroom training and practical application.

Successful graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Department(s)

Welding Technology

Credential

AAS – Associate in Applied Science

Program Code

A50420

Financial Aid Eligible

Yes

Program Contacts

Title

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Title
College Navigator

Name
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Minimum Required Credit Hours
70

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Social Science Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology

- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Math Requirement

Earn at least 3 credits from the following:

- MAT110 - Mathematical Measurement and Literacy
- MAT121 - Algebra/Trigonometry I
- MAT171 - Precalculus Algebra

Major Requirements

Major Requirements

Type
Completion Requirement

Core Requirement

Earn at least 18 credits from the following:

- WLD110 - Cutting Processes
- WLD115 - SMAW (Stick) Plate
- WLD121 - GMAW (MIG) FCAW/Plate
- WLD131 - GTAW (TIG) Plate
- WLD141 - Symbols and Specifications

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 36 credits from the following:

- BPR111 - Print Reading
- CIS110 - Introduction to Computers
- WLD116 - SMAW (stick) Plate/Pipe
- WLD122 - GMAW (MIG) Plate/Pipe
- WLD132 - GTAW (TIG) Plate/Pipe
- WLD143 - Welding Metallurgy
- WLD151 - Fabrication I
- WLD215 - SMAW (stick) Pipe
- WLD231 - GTAW (TIG) Pipe
- WLD261 - Certification Practices
- WLD262 - Inspection & Testing
- WOL110 - Basic Construction Skills

Other

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Welding Technology
Total Degree Map Credits
70
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	2	0

Requirement Select

- WLD110 - Cutting Processes

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	6	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** WLD115 - SMAW (Stick) Plate

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	7	0

Requirement Select

- WLD116 - SMAW (stick) Plate/Pipe
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	5	0

Requirement Select

- MAT110 - Mathematical Measurement and Literacy
- **AND** BPR111 - Print Reading

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	8	0

Requirement Select

- WLD121 - GMAW (MIG) FCAW/ Plate
- **AND** WLD131 - GTAW (TIG) Plate

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	6	0

Requirement Select

- WLD122 - GMAW (MIG) Plate/Pipe
- **AND** WLD132 - GTAW (TIG) Plate/ Pipe

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	12	0

Requirement Select

- CIS110 - Introduction to Computers
- **AND** WLD141 - Symbols and Specifications
- **AND** WLD143 - Welding Metallurgy
- **AND** WLD215 - SMAW (stick) Pipe

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall (16 week)	7	0

Requirement Select

- WLD151 - Fabrication I
- **AND** WLD231 - GTAW (TIG) Pipe

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	3	0

Requirement Select

- COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2 (8 week)	3	0

Requirement Select

- HUM115 - Critical Thinking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring (16 week)	6	0

Requirement Select

- PSY150 - General Psychology
- **AND** WOL110 - Basic Construction Skills

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1 (8 week)	2	0

Requirement Select

- WLD261 - Certification Practices

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	3	0

Requirement Select

- WLD262 - Inspection & Testing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Understand the disciplines specific and critical for the safe and reasonable practice of welding.

Demonstrate the abilities, attributes and characteristics desired by the construction industry, including effective relationship skills and effective self-presentation to demonstrate employability, and key workplace skills such as critical thinking and problem solving.

Possess the intellectual abilities, the exercise of good judgment, and the prompt completion of all responsibilities required for the certification process associated with the AWS certification.

Develop mature, sensitive, effective, and professional relationships with other students, faculty members, department administrators, industry partners, and potential employers.

Conditioned, physically and mentally ability to tolerate taxing workloads and display flexibility to learning and functioning under stress when faced with uncertainties inherent to the welding occupation.

Demonstrate knowledge of the machines, tools and equipment with understanding of their design, use, maintenance, and safety procedures for the protection of the people and property.

Understand the materials, production processes, quality control, and cost for maximizing the effective manufacturing goods and the welding process.

Differentiate coupon performance task monitoring and assessing of daily performance of oneself and others, organizing, seeking instructional cretic

Observe, recreate, imitate the task with reliable expertise with high quality and minimal instruction, and demonstrate to other learners and instructors

A55140 - Cosmetology

Program Overview

Curriulum Description

The Cosmetology curriculum is designed to provide competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the cosmetology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional imaging, hair design, chemical processes, skin care, nail care, multi-cultural practices, business/computer principles, product knowledge, and other selected topics.

Graduates should qualify to sit for the State Board of Cosmetic Arts examination. Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in beauty salons and related businesses.

Department(s)
Cosmetology

Credential
AAS – Associate in Applied Science

Program Code
A55140

Financial Aid Eligible
Yes

Program Contacts

Title
Faculty Mentor

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College Navigator

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Minimum Required Credit Hours
69

Degree Requirements

Simple Requirements

General Education

General Education Requirement

Type
Completion Requirement

English Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Earn at least 3 credits from the following:

- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO163 - Basic Anatomy & Physiology
- BIO168 - Anatomy and Physiology I
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Social Science Requirement

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- GEO111 - World Regional Geography
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- PSY237 - Social Psychology
- PSY241 - Developmental Psychology
- PSY281 - Abnormal Psychology
- SOC210 - Introduction to Sociology
- SOC213 - Sociology of the Family
- SOC220 - Social Problems
- SOC225 - Social Diversity

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 34 credits from the following:

- COS111 - Cosmetology Concepts I
- COS112 - Salon I
- COS113 - Cosmetology Concepts II
- COS114 - Salon II
- COS115 - Cosmetology Concepts III
- COS116 - Salon III
- COS117 - Cosmetology Concepts IV

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 19 credits from the following:

- COS118 - Salon IV
- COS121 - Manicure/Nail Technology I
- COS222 - Manicure/Nail Tech. II

Other

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Cosmetology Degree
Total Degree Map Credits
70
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	12	0

Requirement Select

- COS111 - Cosmetology Concepts I
- **AND** COS112 - Salon I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	1	0

Requirement Select

- ACA122 - Transfer & Career Success

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	12	0

Requirement Select

- COS113 - Cosmetology Concepts II
- **AND** COS114 - Salon II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	3	0

Requirement Select

- ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	12	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** COS115 - Cosmetology Concepts III
- **AND** COS116 - Salon III

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall (16 week)	9	0

Requirement Select

- COS117 - Cosmetology Concepts IV
- **AND** COS118 - Salon IV

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	3	0

Requirement Select

- HUM230 - Leadership Development

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2 (8 week)	3	0

Requirement Select

- COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1 (8 week)	9	0

Requirement Select

- COS121 - Manicure/Nail Technology I
- **AND** SOC210 - Introduction to Sociology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	6	0

Requirement Select

- COS222 - Manicure/Nail Tech. II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Execute correct chemical processes.

Recognize the differences in multicultural cosmetic practices.

Safely practice sanitation/infection control techniques to include disinfection of any bloodborne pathogens.

Produce professional imaging in hair care.

Demonstrate an understanding of nail care.

Use appropriate manipulative techniques in skin care.

A55180 - Criminal Justice Technology

Program Overview

Curriulum Description

The Criminal Justice Technology curriculum is designed to provide knowledge of criminal justice systems and operations. Study will focus on local, state, and federal law enforcement, judicial processes, corrections, and security services. The criminal justice system?s role within society will be explored.

Emphasis is on criminal justice systems, criminology, juvenile justice, criminal and constitutional law, investigative principles, ethics, and community relations. Additional study may include issues and concepts of government, counseling, communications, computers, and technology.

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. Examples include police officer, deputy sheriff, county detention officer, state trooper, intensive probation/parole surveillance officer, correctional officer, and loss prevention specialist.

Department(s)

Criminal Justice Technology

Credential

AAS – Associate in Applied Science

Program Code

A55180

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

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Title
College Navigator

Name
Tina Porter

Phone
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Email
tporter@isothermal.edu

Minimum Required Credit Hours
64

Degree Requirements

Simple Requirements

General Education

General Education Requirement

Type
Completion Requirement

English Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Earn at least 3 credits from the following:

- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO168 - Anatomy and Physiology I
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New

Testament

Social Science Requirement

Earn at least 3 credits from the following:

- POL120 - American Government
- PSY150 - General Psychology
- SOC210 - Introduction to Sociology

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 22 credits from the following:

- CJC111 - Introduction to Criminal Justice
- CJC112 - Criminology
- CJC113 - Juvenile Justice
- CJC131 - Criminal Law
- CJC212 - Ethics & Community Relations
- CJC221 - Investigative Principles
- CJC231 - Constitutional Law

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 26 credits from the following:

- CJC120 - Interviews/Interrogations
- CJC121 - Law Enforcement Operations
- CJC132 - Court Procedure & Evidence
- CJC141 - Corrections
- CJC160 - Terrorism: Underlying Issues
- CJC213 - Substance Abuse
- CJC222 - Criminalistics
- CJC225 - Crisis Intervention
- CJC255 - Issues in Criminal Justice Application

Other

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Criminal Justice Technology Degree
Total Degree Map Credits
64
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** CJC111 - Introduction to Criminal Justice
- **AND** CJC113 - Juvenile Justice

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	9	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** CJC121 - Law Enforcement Operations
- **AND** CJC141 - Corrections

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	9	0

Requirement Select

- ENG112 - Writing and Research in the Disciplines
- **AND** CJC112 - Criminology
- **AND** CJC131 - Criminal Law

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	9	0

Requirement Select

- CJC132 - Court Procedure & Evidence
- **AND** PSY150 - General Psychology
- **AND** MAT143 - Quantitative Literacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	10	0

Requirement Select

- CJC221 - Investigative Principles
- **AND** CJC225 - Crisis Intervention
- **AND** CJC231 - Constitutional Law

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2 (8 week)	5	0

Requirement Select

- CJC120 - Interviews/Interrogations
- **AND** CJC222 - Criminalistics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1 (8 week)	6	0

Requirement Select

- HUM115 - Critical Thinking
- **AND** CJC212 - Ethics & Community Relations

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	9	0

Requirement Select

- CJC160 - Terrorism: Underlying Issues
- **AND** CJC213 - Substance Abuse
- **AND** CJC255 - Issues in Criminal Justice Application

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits** 0
0	
Total Minor Credits	**Total Elective Credits**

0	0

Learning Outcomes

Learning Outcomes

Identify the components, roles and interworkings of the criminal justice system, including policing, courts, corrections and juvenile justice.

Evaluate emerging criminal justice issues in order to make sound decisions in the field.

Comprehend how the various laws work that form the foundation of the criminal justice system.

Apply causes/theories of crime and victimization.

A55220 - Early Childhood Education

Program Overview

Curriulum Description

The Early Childhood Education curriculum prepares individuals to work with children from birth through eight in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Course work includes child growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

Department(s)

Early Childhood Education

Credential

AAS – Associate in Applied Science

Program Code

A55220

Financial Aid Eligible

Yes

Program Contacts

Title
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Title
College Navigator

Name
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Minimum Required Credit Hours
76

Degree Requirements

Degree Maps

Learning Outcomes

Learning Outcomes

Career Entry Pathway – for those wanting to immediately enter the workforce and do not have plans to pursue a bachelor's degree.

Birth- Kindergarten Licensure Transfer Pathway – for those wanting to transfer to a four-year institution to pursue a bachelor's degree to teach in an NC-Pre-K or Kindergarten classroom.

Non-Licensure Transfer Pathway- for those wanting to transfer to a four-year institution but may not want to teach NC-Pre-K or teach in a public school Kindergarten setting. See your college navigator/faculty mentor about the many career choices in this field of early childhood.

A55220C - Early Childhood Education - Career Entry

Program Overview

Curriulum Description

The Early Childhood Education curriculum prepares individuals to work with children from birth through eight in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Course work includes child growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

Department(s)

Early Childhood Education

Credential

AAS – Associate in Applied Science

Program Code

A55220C

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

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Title
College Navigator

Name
Tina Porter

Phone
828-395-1621

Email
tporter@isothermal.edu

Minimum Required Credit Hours

65

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Earn at least 3 credits from the following:

- BIO110 - Principles of Biology
- CHM151 - General Chemistry I
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab
- PHY151 - College Physics I

Social Science Requirement

Earn at least 3 credits from the following:

- PSY150 - General Psychology

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament

Major Requirements

Major Requirements

Type

Completion Requirement

Required Courses

Earn at least 29 credits from the following:

- EDU119 - Introduction to Early Childhood Education
- EDU131 - Child, Family, and Community
- EDU146 - Child Guidance
- EDU151 - Creative Activities
- EDU153 - Health, Safety and Nutrition
- EDU221 - Children With Exceptionalities
- EDU234 - Infants, Toddlers, and Twos
- EDU280 - Language and Literacy Experiences
- EDU284 - Early Childhood Capstone Practicum

Child Development

Earn at least 6 credits from the following:

- EDU144 - Child Development I

- EDU145 - Child Development II

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Elective Requirement

Earn at least 12 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO168 - Anatomy and Physiology I
- BIO169 - Anatomy and Physiology II
- BUS137 - Principles of Management
- CHM151 - General Chemistry I
- CIS110 - Introduction to Computers
- COM231 - Public Speaking
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- EDU161 - Introduction to Exceptional Children
- EDU163 - Classroom Management and Instruction
- EDU177 - Instructional Methods
- EDU187 - Teaching and Learning for All
- EDU216 - Foundations of Education
- EDU250 - Teacher Licensure Preparation
- EDU261 - Early Childhood Administration I
- EDU262 - Early Childhood Administration II
- EDU271 - Educational Technology
- EDU279 - Literacy Development and Instruction
- ENG231 - American Literature I
- ENG232 - American Literature II
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM180 - International Cultural Exploration
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- SOC210 - Introduction to Sociology
- SOC220 - Social Problems
- SOC225 - Social Diversity
- SPA111 - Elementary Spanish I
- SPA181 - Spanish Lab 1

Practicum Requirements

Earn at least 2 credits from the following:

- EDU184 - Early Childhood Introductory Practicum

Other

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Early Childhood Education - Career Entry
Total Degree Map Credits
67
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	5	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** EDU119 - Introduction to Early Childhood Education

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	9	0

Requirement Select

- EDU153 - Health, Safety and Nutrition
- **AND** EDU151 - Creative Activities
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	10	0

Requirement Select

- EDU146 - Child Guidance
- **AND** EDU131 - Child, Family, and Community
- **AND** MAT152 - Statistical Methods I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	9	0

Requirement Select

- EDU234 - Infants, Toddlers, and Twos
- **AND** COM231 - Public Speaking
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall (16 week)	2	0

Requirement Select

- EDU184 - Early Childhood Introductory Practicum

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	9	0

Requirement Select

- EDU144 - Child Development I
- **AND** EDU216 - Foundations of Education
- **AND** ART111 - Art Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2 (8 week)	6	0

Requirement Select

- EDU145 - Child Development II
- **AND** EDU280 - Language and Literacy Experiences

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring (16 week)	4	0

Requirement Select

- EDU284 - Early Childhood Capstone Practicum

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1 (8 week)	6	0

Requirement Select

- EDU221 - Children With Exceptionalities
- **AND** EDU261 - Early Childhood Administration I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	7	0

Requirement Select

- BIO110 - Principles of Biology
- **AND** EDU271 - Educational Technology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Career Entry Pathway – for those wanting to immediately enter the workforce and do not have plans to pursue a bachelor's degree.

Birth- Kindergarten Licensure Transfer Pathway – for those wanting to transfer to a four-year institution to pursue a bachelor's degree to teach in an NC-Pre-K or Kindergarten classroom.

Non-Licensure Transfer Pathway- for those wanting to transfer to a four-year institution but may not want to teach NC-Pre-K or teach in a public school Kindergarten setting. See your college navigator/faculty mentor about the many career choices in this field of early childhood.

A55220L - Early Childhood Education Birth to K Licensure Transfer

Program Overview

Curriulum Description

The Early Childhood Education curriculum prepares individuals to work with children from birth through eight in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Course work includes child growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

Department(s)

Early Childhood Education

Credential

AAS – Associate in Applied Science

Program Code

A55220L

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

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Alice McCluney

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Title
College Navigator

Name
Tina Porter

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Minimum Required Credit Hours
73

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking

Math/Natural Science Requirement

Earn at least 3 credits from the following:

- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Social Science Requirement

Earn at least 3 credits from the following:

- PSY150 - General Psychology

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 29 credits from the following:

- EDU119 - Introduction to Early Childhood Education
- EDU131 - Child, Family, and Community
- EDU146 - Child Guidance
- EDU151 - Creative Activities
- EDU153 - Health, Safety and Nutrition
- EDU221 - Children With Exceptionalities
- EDU234 - Infants, Toddlers, and Twos
- EDU280 - Language and Literacy Experiences
- EDU284 - Early Childhood Capstone Practicum

Child Development

Earn at least 6 credits from the following:

- EDU144 - Child Development I
- EDU145 - Child Development II

Transfer Specialty

Earn at least 6 credits from the following:

- EDU216 - Foundations of Education
- EDU250 - Teacher Licensure Preparation

English Transfer Specialty

Earn at least 3 credits from the following:

- ENG112 - Writing and Research in the Disciplines

Social Behavioral Transfer Specialty

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- SOC210 - Introduction to Sociology

Biological Sciences Transfer Specialty

Earn at least 4 credits from the following:

- BIO110 - Principles of Biology
- BIO111 - General Biology I

Natural Science Transfer Specialty

Take 1 of 3 Groups

Fulfill ANY of the following requirements:

Group 1

Earn at least 4 credits from the following:

No selection provided

OR

Group 2

Earn at least 4 credits from the following:

- CHM151 - General Chemistry I

OR

Earn at least 4 credits from the following:

- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Practicum Requirement

Earn at least 2 credits from the following:

- EDU184 - Early Childhood Introductory Practicum

Other

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Early Childhood Education - Birth to K Licensure Transfer
Total Degree Map Credits
74
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	8	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** EDU119 - Introduction to Early Childhood Education
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	10	0

Requirement Select

- EDU153 - Health, Safety and Nutrition
- **AND** EDU151 - Creative Activities
- **AND** MAT152 - Statistical Methods I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	10	0

Requirement Select

- EDU131 - Child, Family, and Community
- **AND** EDU146 - Child Guidance
- **AND** BIO110 - Principles of Biology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	9	0

Requirement Select

- EDU234 - Infants, Toddlers, and Twos
- **AND** PSY150 - General Psychology
- **AND** ENG112 - Writing and Research in the Disciplines

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall (16 week)	2	0

Requirement Select

- EDU184 - Early Childhood Introductory Practicum

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	9	0

Requirement Select

- EDU216 - Foundations of Education
- **AND** EDU144 - Child Development I
- **AND** ART111 - Art Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2 (8 week)	9	0

Requirement Select

- EDU145 - Child Development II
- **AND** EDU280 - Language and Literacy Experiences
- **AND** SOC210 - Introduction to Sociology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring (16 week)	4	0

Requirement Select

- EDU284 - Early Childhood Capstone Practicum

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1 (8 week)	6	0

Requirement Select

- EDU250 - Teacher Licensure Preparation
- **AND** EDU221 - Children With Exceptionalities

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	7	0

Requirement Select

- PHY110 - Conceptual Physics
- **AND** PHY110A - Conceptual Physics Lab
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**

0	0

Learning Outcomes

Learning Outcomes

Career Entry Pathway – for those wanting to immediately enter the workforce and do not have plans to pursue a bachelor's degree.

Birth- Kindergarten Licensure Transfer Pathway – for those wanting to transfer to a four-year institution to pursue a bachelor's degree to teach in an NC-Pre-K or Kindergarten classroom.

Non-Licensure Transfer Pathway- for those wanting to transfer to a four-year institution but may not want to teach NC-Pre-K or teach in a public school Kindergarten setting. See your college navigator/faculty mentor about the many career choices in this field of early childhood.

A55220N - Early Childhood Education Non-Licensure

Program Overview

Curriulum Description

The Early Childhood Education curriculum prepares individuals to work with children from birth through eight in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Course work includes child growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

Department(s)

Early Childhood Education

Credential

AAS – Associate in Applied Science

Program Code

A55220N

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

Name
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Email
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Title
College Navigator

Name
Tina Porter

Phone
828-395-1621

Email
tporter@isothermal.edu

Minimum Required Credit Hours
74

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking

Math/Natural Science Requirement

Earn at least 3 credits from the following:

- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Social Science Requirement

Earn at least 3 credits from the following:

- PSY150 - General Psychology

Humanities Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 29 credits from the following:

- EDU119 - Introduction to Early Childhood Education
- EDU131 - Child, Family, and Community
- EDU146 - Child Guidance
- EDU151 - Creative Activities
- EDU153 - Health, Safety and Nutrition
- EDU221 - Children With Exceptionalities
- EDU234 - Infants, Toddlers, and Twos
- EDU280 - Language and Literacy Experiences
- EDU284 - Early Childhood Capstone Practicum

Child Development

Earn at least 6 credits from the following:

- EDU144 - Child Development I
- EDU145 - Child Development II

Transfer Specialty

Complete ALL of the following Courses:

- EDU261 - Early Childhood Administration I
- EDU262 - Early Childhood Administration II

English Transfer Specialty

Earn at least 3 credits from the following:

- ENG112 - Writing and Research in the Disciplines

Social Behavioral Transfer Specialty

Earn at least 3 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- SOC210 - Introduction to Sociology

Biological Sciences Transfer Specialty

Earn at least 4 credits from the following:

- BIO110 - Principles of Biology
- BIO111 - General Biology I

Natural Science Transfer Specialty

Take 1 of 3 Groups

Fulfill ANY of the following requirements:

Group 1

Earn at least 4 credits from the following:

No selection provided

OR

Group 2

Earn at least 4 credits from the following:

- CHM151 - General Chemistry I

OR

Group 3

Earn at least 4 credits from the following:

- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Practicum Requirement

Earn at least 2 credits from the following:

- EDU184 - Early Childhood Introductory Practicum

Other

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Early Childhood Education Non-Licensure
Total Degree Map Credits
74
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	8	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** EDU119 - Introduction to Early Childhood Education

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	10	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** EDU151 - Creative Activities
- **AND** EDU153 - Health, Safety and Nutrition

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	10	0

Requirement Select

- EDU146 - Child Guidance
- **AND** EDU131 - Child, Family, and Community
- **AND** BIO110 - Principles of Biology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select

- EDU234 - Infants, Toddlers, and Twos
- **AND** PSY150 - General Psychology
- **AND** ENG112 - Writing and Research in the Disciplines

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	2	0

Requirement Select

- EDU184 - Early Childhood Introductory Practicum

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	6	0

Requirement Select

- EDU144 - Child Development I
- **AND** ART111 - Art Appreciation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- EDU145 - Child Development II
- **AND** EDU280 - Language and Literacy Experiences
- **AND** SOC210 - Introduction to Sociology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring	4	0

Requirement Select

- EDU284 - Early Childhood Capstone Practicum

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	10	0

Requirement Select

- EDU221 - Children With Exceptionalities
- **AND** PHY110 - Conceptual Physics
- **AND** PHY110A - Conceptual Physics Lab
- **AND** EDU261 - Early Childhood Administration I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	6	0

Requirement Select

- EDU262 - Early Childhood Administration II
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	

0

Total Minor Credits	Total Elective Credits
0	0

Learning Outcomes

Learning Outcomes

Career Entry Pathway – for those wanting to immediately enter the workforce and do not have plans to pursue a bachelor's degree.

Birth- Kindergarten Licensure Transfer Pathway – for those wanting to transfer to a four-year institution to pursue a bachelor's degree to teach in an NC-Pre-K or Kindergarten classroom.

Non-Licensure Transfer Pathway- for those wanting to transfer to a four-year institution but may not want to teach NC-Pre-K or teach in a public school Kindergarten setting. See your college navigator/faculty mentor about the many career choices in this field of early childhood.

A55320 - Career and Technical Teacher Education Program

Program Overview

Curriulum Description

The Occupational Education Associate curriculum is designed for individuals skilled and experienced in a trade or technical specialty who would like to receive an associate degree in preparation for teaching or other purposes.

Course work is designed to supplement previous education, training, and/or experience the individual has already attained.

Graduates of the program may find employment as instructors in the field of occupational education.

Department(s)

Career and Technical Teacher Education

Credential

AAS – Associate in Applied Science

Program Code

A55320

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title

Faculty Mentor

Name

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Email
amccluney@isothermal.edu

Title
College Navigator

Name
Tina Porter

Phone
828-395-1621

Email
tporter@isothermal.edu

Minimum Required Credit Hours
64

Degree Requirements

Simple Requirements

General Education

General Education Requirement

Type
Completion Requirement

English Requirement

Complete ALL of the following Courses:

- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines

Math/Natural Science Requirement

Earn at least 3 credits from the following:

- BIO110 - Principles of Biology
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Social Science Requirement

Complete ALL of the following Courses:

- PSY150 - General Psychology

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- ENG262 - World Literature II
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM130 - Myth in Human Culture
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- REL110 - World Religions
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New

Testament

Major Requirements

Major Requirements

Type
Completion Requirement

Earn at least 12 credits from the following:

- EDU161 - Introduction to Exceptional Children
- EDU176 - Occupational Analysis and Course Development
- EDU177 - Instructional Methods
- EDU281 - Instructional Strategies in Reading and Writing

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Earn at least 30 credits from the following:

- CIS110 - Introduction to Computers
- EDU131 - Child, Family, and Community
- EDU163 - Classroom Management and Instruction
- EDU179 - Vocational Student Organizations
- EDU216 - Foundations of Education
- EDU250 - Teacher Licensure Preparation
- EDU271 - Educational Technology
- ISC121 - Environmental Health & Safety
- ISC132 - Manufacturing Quality Control
- ART111 - Art Appreciation
- ART115 - Art History Survey II
- CHM131 - Introduction to Chemistry
- CHM131A - Introduction to Chemistry Lab
- CHM151 - General Chemistry I
- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- HEA110 - Personal Health/Wellness
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics
- POL120 - American Government
- PSY241 - Developmental Psychology
- REL211 - Introduction to Old Testament
- REL212 - Introduction to New Testament
- SOC210 - Introduction to Sociology
- SOC220 - Social Problems
- SOC225 - Social Diversity
- SOC213 - Sociology of the Family
- MAT171 - Precalculus Algebra
- BUS137 - Principles of Management
- ECO252 - Principles of Macroeconomics
- ECO251 - Principles of Microeconomics
- EDU145 - Child Development II
- EDU144 - Child Development I
- EDU146 - Child Guidance

- EDU221 - Children With Exceptionalities
- AGR261 - Agronomy
- ANS110 - Animal Science
- AGR170 - Soil Science
- AGR212 - Farm Business Management
- AGR140 - Agricultural Chemicals

Other

Other Required Hours

Type
Completion Requirement

ACA Requirement

Complete ALL of the following Courses:

- ACA122 - Transfer & Career Success

Additional Comments:
Take 6 credits

Degree Maps

Degree Map Name
Career and Technical Teacher Education Program
Total Degree Map Credits
65
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative
Students will receive credit in their final term for work experience.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	4	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** EDU176 - Occupational Analysis and Course Development

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- EDU177 - Instructional Methods
- **AND** EDU163 - Classroom Management and Instruction
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- MAT152 - Statistical Methods I
- **AND** EDU161 - Introduction to Exceptional Children

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- EDU281 - Instructional Strategies in Reading and Writing
- **AND** EDU271 - Educational Technology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- COM231 - Public Speaking
- **AND** PSY150 - General Psychology
- **AND** EDU216 - Foundations of Education

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	9	0

Requirement Select

- ART111 - Art Appreciation
- **AND** EDU145 - Child Development II
- **AND** ISC121 - Environmental Health & Safety

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1	9	0

Requirement Select

- HIS111 - World Civilizations I
- **AND** EDU146 - Child Guidance
- **AND** SOC210 - Introduction to Sociology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2	12	0

Requirement Select

- EDU131 - Child, Family, and Community
- **AND** BUS137 - Principles of Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Create environments that are healthy, respectful, supportive, and challenging to ALL children.

Design and implement developmentally effective curriculum that addresses all domains of learning.

Support and empower ALL children, families, and communities through trusting and respectful reciprocal relationships.

Use authentic assessment responsibility to make informed decisions to guide ALL children’s learning.

Communicate effectively using standard written and verbal skills.

Utilize technology to enhance learning for ALL children.

Serve as a leader, advocate, and professional in the fields of early education.

C1510002 - Agribusiness Technology - General Business (certificate)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. The objective is the development of a workforce knowledgeable in sustainable agriculture practices. Students will learn the fundamentals of agriculture, focusing on crop production and business. Emphasis is placed on entrepreneurial and field training. Students will also learn the basic principles of our economic system and government policies and programs relating to agriculture. Graduates should qualify for a variety of jobs in agricultural businesses such as equipment, feed, and agricultural supply sales; store management; farm operations; wholesale and retail produce management; nursery operations; and environmental and agricultural education.

Agribusiness Technology: A program that prepares individuals to manage agricultural businesses and agriculturally related operations within diversified corporations. Potential course work includes instruction in agriculture, agricultural specialization, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities.

Department(s)

Agribusiness Technology

Credential

C – Certificate

Program Code

C1510002

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

Name
Lisa Higgins

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Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Program Major

Type
Completion Requirement

Complete ALL of the following Courses:

- AGR110 - Agricultural Economics
- AGR210 - Agricultural Accounting
- AGR212 - Farm Business Management
- AGR213 - Agricultural Law & Finance
- AGR214 - Agricultural Marketing
- BUS125 - Personal Finance

Degree Maps

Degree Map Name
Agribusiness Technology - General Business Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	3	0

Requirement Select

- AGR213 - Agricultural Law & Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- AGR210 - Agricultural Accounting
- **AND** BUS125 - Personal Finance

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	3	0

Requirement Select

- AGR110 - Agricultural Economics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- AGR214 - Agricultural Marketing
- **AND** AGR212 - Farm Business Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C1510004 - Agribusiness Technology Horticulture (Certificate)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. The objective is the development of a workforce knowledgeable in sustainable agriculture practices. Students will learn the fundamentals of agriculture, focusing on crop production and business. Emphasis is placed on entrepreneurial and field training. Students will also learn the basic principles of our economic system and government policies and programs relating to agriculture. Graduates should qualify for a variety of jobs in agricultural businesses such as equipment, feed, and agricultural supply sales; store management; farm operations; wholesale and retail produce management; nursery operations; and environmental and agricultural education.

Agribusiness Technology: A program that prepares individuals to manage agricultural businesses and agriculturally related operations within diversified corporations. Potential course work includes instruction in agriculture, agricultural specialization, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities.

Department(s)

Agribusiness Technology

Credential

C – Certificate

Program Code

C1510004

Financial Aid Eligible

Yes

Program Contacts

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Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Technical Core

Earn at least 6 credits from the following:

- AGR140 - Agricultural Chemicals
- AGR170 - Soil Science

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 12 credits from the following:

- AGR145 - Introduction to Small Fruits
- HOR134 - Greenhouse Operations
- HOR150 - Introduction to Horticulture
- HOR168 - Plant Propagation

Degree Maps

Degree Map Name
Agribusiness Technology Horticulture Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	6	0

Requirement Select

- AGR170 - Soil Science
- **AND** HOR112 - Landscape Design I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	4	0

Requirement Select

- AGR145 - Introduction to Small Fruits

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	5	0

Requirement Select

- AGR140 - Agricultural Chemicals
- **AND** HOR150 - Introduction to Horticulture

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	3	0

Requirement Select

- HOR134 - Greenhouse Operations

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C1510005 - Agribusiness Technology (certificate)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. The objective is the development of a workforce knowledgeable in sustainable agriculture practices. Students will learn the fundamentals of agriculture, focusing on crop production and business. Emphasis is placed on entrepreneurial and field training. Students will also learn the basic principles of our economic system and government policies and programs relating to agriculture. Graduates should qualify for a variety of jobs in agricultural businesses such as equipment, feed, and agricultural supply sales; store management; farm operations; wholesale and retail produce management; nursery operations; and environmental and agricultural education.

Agribusiness Technology: A program that prepares individuals to manage agricultural businesses and agriculturally related operations within diversified corporations. Potential course work includes instruction in agriculture, agricultural specialization, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities.

Department(s)

Agribusiness Technology

Credential

C – Certificate

Program Code

C1510005

Financial Aid Eligible

Yes

Program Contacts

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Minimum Required Credit Hours

17

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Technical Core

Earn at least 9 credits from the following:

- AGR139 - Introduction to Sustainable Agriculture
- AGR170 - Soil Science
- ANS110 - Animal Science

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 5 credits from the following:

- CIS110 - Introduction to Computers
- HOR150 - Introduction to Horticulture

Required Course

Earn at least 3 credits from the following:

- BUS110 - Introduction to Business

Degree Maps

Degree Map Name
Agribusiness Technology - Certificate
Total Degree Map Credits
17
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	6	0

Requirement Select

- AGR170 - Soil Science
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- AGR139 - Introduction to Sustainable Agriculture
- **AND** ANS110 - Animal Science

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	5	0

Requirement Select

- HOR150 - Introduction to Horticulture
- **AND** BUS110 - Introduction to Business

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C151005P - Agribusiness Technology Pathway (cert)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. The objective is the development of a workforce knowledgeable in sustainable agriculture practices. Students will learn the fundamentals of agriculture, focusing on crop production and business. Emphasis is placed on entrepreneurial and field training. Students will also learn the basic principles of our economic system and government policies and programs relating to agriculture. Graduates should qualify for a variety of jobs in agricultural businesses such as equipment, feed, and agricultural supply sales; store management; farm operations; wholesale and retail produce management; nursery operations; and environmental and agricultural education.

Agribusiness Technology: A program that prepares individuals to manage agricultural businesses and agriculturally related operations within diversified corporations. Potential course work includes instruction in agriculture, agricultural specialization, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities.

Department(s)

Agribusiness Technology

Credential

C – Certificate

Program Code

C151005P

Program Can be Earned 100% Online

Yes

Financial Aid Eligible
No

Program Contacts

Title
CCP Advisor

Email
ccp@isothermal.edu

Minimum Required Credit Hours
17

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Major Requirements

Earn at least 9 credits from the following:

- AGR139 - Introduction to Sustainable Agriculture
- AGR170 - Soil Science
- ANS110 - Animal Science

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 5 credits from the following:

- CIS110 - Introduction to Computers
- HOR150 - Introduction to Horticulture

Required Courses

Earn at least 3 credits from the following:

- BUS110 - Introduction to Business

Degree Maps

Degree Map Name
Agribusiness Technology Certificate Pathway
Total Degree Map Credits
0
Degree Map Effective Catalog Year
2025 -

Degree Map Narrative

Program Code:	C151005P		
Program Name:	Agribusiness Technology Certificate Pathway		
Year 1			
Fall	Course number	Course Name	Credits
Term 1	AGR 170	Soil Science	3
	ANS 110	Animal Science	3
Term 2	AGR 139	Intro to Sustainable Ag	3
	CIS 110	Introduction to Computers	3
Spring	Course number	Course Name	Credits
Term 1	HOR 150	Intro to Horticulture	2
	BUS 110	Introduction to Business	3

Total General Education Credits
0

Total Major Credits
0

Total Minor Credits
0

Total Elective Credits
0

C25120 - Business Administration (Certificate)

Program Overview

Curriulum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Department(s)
Business Administration

Credential
C – Certificate

Program Code
C25120

Program Can be Earned 100% Online
Yes

Financial Aid Eligible
Yes

Program Contacts

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Minimum Required Credit Hours
12

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Fulfill ALL of the following requirements:

Earn at least 9 credits from the following:

- BUS110 - Introduction to Business
- BUS137 - Principles of Management
- CIS110 - Introduction to Computers

AND

Earn at least 3 credits from the following:

- BUS115 - Business Law I
- BUS153 - Human Resource Management

Degree Maps

Degree Map Name
Business Administration Certificate
Total Degree Map Credits
12
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	6	0

Requirement Select

- BUS110 - Introduction to Business
- **AND** BUS137 - Principles of Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- CIS110 - Introduction to Computers
- **AND** BUS115 - Business Law I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25120B - Business Administration - Business Information Systems (cert

Program Overview

Curriulum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Department(s)

Business Administration

Credential

C – Certificate

Program Code

C25120B

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

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Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 3 credits from the following:

- BUS110 - Introduction to Business

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Business Information Systems

Earn at least 15 credits from the following:

- CTI110 - Information Technology Foundations
- CTI120 - Network and Security Foundations
- CTS115 - Information Systems Business Concepts
- CTS120 - Hardware/Software Support
- CTS240 - Project Management

Degree Maps

Degree Map Name
Business Administration - Business Information Systems Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	3	0

Requirement Select

- CTS120 - Hardware/Software Support

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- CTI120 - Network and Security Foundations
- **AND** CTS240 - Project Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select

- CTI110 - Information Technology Foundations
- **AND** BUS110 - Introduction to Business

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- CTS115 - Information Systems Business Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25120D - Business Administration - Advertising and Design (certificate)

Program Overview

Curriulum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy. Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making. Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Department(s)

Business Science Division

Credential

Certificate

Program Code

C25120D

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

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Title
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Title
College Navigator

Phone
(828) 395-1755

Minimum Required Credit Hours
17

Degree Requirements

Simple Requirements

Major Requirements

Complete both sets

Type
Completion Requirement

Complete all of the following courses:

Complete ALL of the following Courses:
- GRD151 - Computer Design Basics
- GRD152 - Computer Design Technology
- GRD182 - Digital and Print Marketing
- MKT120 - Principles of Marketing
- WEB140 - Web Development Tools

Complete one of the following courses:

Earn at least 3 credits from the following:
- BUS139 - Entrepreneurship I
- MKT223 - Customer Experience

Degree Maps

Degree Map Name
Business Administration - Advertising and Design
Total Degree Map Credits
17

Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	5	0

Requirement Select
- GRD151 - Computer Design Basics
- **AND** GRD182 - Digital and Print Marketing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select
- GRD152 - Computer Design Technology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term		

	1	3	0

Requirement Select

- MKT223 - Customer Experience

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- MKT120 - Principles of Marketing
- **AND** WEB140 - Web Development Tools

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Create effective advertising campaigns that integrate design principles and digital marketing strategies using software and technologies.

C25120E - Business Administration - Business Economics (certificate)

Program Overview

Curriulum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Department(s)

Business Administration

Credential

C – Certificate

Program Code

C25120E

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title

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Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type

Completion Requirement

Required Courses

Earn at least 18 credits from the following:

- BUS110 - Introduction to Business
- BUS115 - Business Law I
- BUS125 - Personal Finance
- BUS137 - Principles of Management
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics

Degree Maps

Degree Map Name
Business Administration - Business Economics
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	3	0

Requirement Select

- BUS110 - Introduction to Business

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- BUS115 - Business Law I
- **AND** ECO252 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select

- BUS137 - Principles of Management
- **AND** ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- BUS125 - Personal Finance

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25120EP - Business Administration - Business Economics Pathway (cert)

Program Overview

Curriulum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Department(s)

Business Administration

Credential

C – Certificate

Program Code

C25120EP

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title
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Minimum Required Credit Hours
13

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Major Requirements

Earn at least 13 credits from the following:

- ACC120 - Principles of Financial Accounting
- BUS110 - Introduction to Business
- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics

C25120F - Business Administration - Office Management (certificate)

Program Overview

Curriulum Description
The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Department(s)
Business Administration

Credential
C – Certificate

Program Code
C25120F

Program Can be Earned 100% Online
Yes

Financial Aid Eligible
No

Program Contacts

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Title
College Navigator

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Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 18 credits from the following:

- BUS137 - Principles of Management
- BUS153 - Human Resource Management
- MKT223 - Customer Experience
- CTS287 - Emerging Technologies
- OST136 - Word Processing
- OST164 - Office Editing

Degree Maps

Degree Map Name
Business Administration Office Management Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	6	0

Requirement Select

- OST136 - Word Processing
- **AND** OST164 - Office Editing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year	Semester	Credits	Credits
Year 1	Fall Term 2	3	0

Requirement Select
- BUS153 - Human Resource Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select
- BUS137 - Principles of Management
- **AND** MKT223 - Customer Experience

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select
- CTS287 - Emerging Technologies

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25120P - Business Administration Pathway (cert)

Program Overview

Curriulum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Department(s)

Business Administration

Credential

C – Certificate

Program Code

C25120P

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title

CCP Advisor

Email

ccp@isothermal.edu

Minimum Required Credit Hours

12

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type

Completion Requirement

Required Courses

Earn at least 12 credits from the following:

- BUS110 - Introduction to Business
- BUS137 - Principles of Management
- BUS153 - Human Resource Management
- CIS110 - Introduction to Computers

C25120S - Business Administration - Small Business (certificate)

Program Overview

Curriulum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Department(s)

Business Administration

Credential

C – Certificate

Program Code

C25120S

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title

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Title

College Navigator

Name

Brandon Burnett

Phone

828-395-1463

Email

bburnett@isothermal.edu

Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type

Completion Requirement

Required Courses

Take 2 Groups

Fulfill ALL of the following requirements:

Group 1

Earn at least 15 credits from the following:

- BUS110 - Introduction to Business
- BUS137 - Principles of Management
- BUS139 - Entrepreneurship I
- BUS230 - Small Business Management
- MKT223 - Customer Experience

AND

Group 2

Earn at least 3 credits from the following:

- ACC129 - Individual Income Taxes
- BUS125 - Personal Finance

Degree Maps

Degree Map Name
Business Administration Small Business Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	6	0

Requirement Select

- BUS110 - Introduction to Business
- **AND** BUS139 - Entrepreneurship I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	3	0

Requirement Select

- BUS137 - Principles of Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	6	0

Requirement Select

- MKT223 - Customer Experience
- **AND** BUS125 - Personal Finance

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	3	0

Requirement Select

- BUS230 - Small Business Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25120T - Business Administration - Business Technology (cert)

Program Overview

Curriulum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Department(s)

Business Administration

Credential

C – Certificate

Program Code

C25120T

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

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Title
College Navigator

Name
Brandon Burnett

Phone
828-395-1463

Email
bburnett@isothermal.edu

Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Computer Requirement

Earn at least 3 credits from the following:

- CIS110 - Introduction to Computers

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Business Technology

Earn at least 15 credits from the following:

- CSC113 - Artificial Intelligence Fundamentals
- CSC117 - Artificial Intelligence Tools I
- CTS130 - Spreadsheet
- CTS287 - Emerging Technologies
- OST136 - Word Processing

Degree Maps

C25120W - Business Administration - Business Web Development (cert)

Program Overview

Curriulum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Department(s)

Business Administration

Credential

C – Certificate

Program Code

C25120W

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title

Faculty Mentor

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Title

College Navigator

Name

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Phone

828-395-1463

Email

bburnett@isothermal.edu

Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type

Completion Requirement

Required Courses

Earn at least 3 credits from the following:

- BUS137 - Principles of Management

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Business Web Development

Take 2 groups

Fulfill ALL of the following requirements:

Group 1

Earn at least 12 credits from the following:

- CTI110 - Information Technology Foundations
- WEB115 - Web Markup and Scripting
- WEB140 - Web Development Tools
- WEB210 - Web Design

AND

Group 2

Earn at least 3 credits from the following:

- BUS139 - Entrepreneurship I
- MKT223 - Customer Experience

Degree Maps

Degree Map Name
Business Administration - Business Web Development Certificate

Total Degree Map Credits
18

Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	6	0

Requirement Select

- WEB210 - Web Design
- **AND** BUS139 - Entrepreneurship I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	3	0

Requirement Select

- BUS137 - Principles of Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	6	0

Requirement Select

- WEB115 - Web Markup and Scripting
- **AND** CTI110 - Information Technology Foundations

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	3	0

Requirement Select

- WEB140 - Web Development Tools

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25310G - Medical Office Administration - General (Certificate)

Program Overview

Curriulum Description

The Medical Office Administration curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

Department(s)

Medical Office Administration

Credential

C – Certificate

Program Code

C25310G

Financial Aid Eligible

Yes

Program Contacts

Title

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Title

College Navigator

Name

Brandon Burnett

Phone

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Email

bburnett@isothermal.edu

Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type

Completion Requirement

Core Requirements

Earn at least 18 credits from the following:

- CIS110 - Introduction to Computers
- MED121 - Medical Terminology I
- MED122 - Medical Terminology II
- OST136 - Word Processing
- OST148 - Medical Insurance and

Billing
- OST149 - Medical Legal Issues

Degree Maps

Degree Map Name
Medical Office Administration - General Medical Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	6	0

Requirement Select
- MED121 - Medical Terminology I
- **AND** OST136 - Word Processing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	6	0

Requirement Select
- MED122 - Medical Terminology II
- **AND** OST149 - Medical Legal Issues

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	3	0

Requirement Select
- OST148 - Medical Insurance and Billing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	3	0

Requirement Select

- CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25310H - Medical Office Administration - Healthcare Admin (Cert)

Program Overview

Curriulum Description

The Medical Office Administration curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

Department(s)

Medical Office Administration

Credential

C – Certificate

Program Code

C25310H

Financial Aid Eligible

Yes

Program Contacts

Title

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Phone
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Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Core Requirements

Earn at least 18 credits from the following:

- CIS110 - Introduction to Computers
- OST148 - Medical Insurance and Billing
- BUS153 - Human Resource Management
- HMT110 - Introduction to Healthcare Management
- HMT211 - Long-Term Care Administration
- HMT212 - Management of Healthcare Organizations

Degree Maps

Degree Map Name
Medical Office Administration - Healthcare Administration Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	3	0

Requirement Select

- CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	6	0

Requirement Select

- BUS153 - Human Resource Management
- **AND** HMT110 - Introduction to Healthcare Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	3	0

Requirement Select

- OST148 - Medical Insurance and Billing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	6	0

Requirement Select

- HMT211 - Long-Term Care Administration
- **AND** HMT212 - Management of Healthcare Organizations

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25310M - Medical Office Admin Medical Billing and Coding (Cert)

Program Overview

Curriulum Description

The Medical Office Administration curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

Department(s)

Medical Office Administration

Credential

C – Certificate

Program Code

C25310M

Financial Aid Eligible

Yes

Program Contacts

Title

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Title

College Navigator

Name

Brandon Burnett

Phone

828-395-1463

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bburnett@isothermal.edu

Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type

Completion Requirement

Core Requirements

Earn at least 18 credits from the following:

- MED121 - Medical Terminology I
- MED122 - Medical Terminology II
- OST247 - Procedure Coding
- OST248 - Diagnostic Coding
- OST249 - Medical Coding

Certification Preparation
- OST264 - Medical Auditing

Degree Maps

Degree Map Name
Medical Office Administration - Medical Billing and Coding Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	3	0

Requirement Select
- MED121 - Medical Terminology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	6	0

Requirement Select
- MED122 - Medical Terminology II
- **AND** OST248 - Diagnostic Coding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	3	0

Requirement Select
- OST247 - Procedure Coding

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	6	0

Requirement Select

- OST249 - Medical Coding Certification Preparation
- **AND** OST264 - Medical Auditing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25310P - Medical Office Administration Pathway (cert)

Program Overview

Curriulum Description

The Medical Office Administration curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

Department(s)

Medical Office Administration

Credential

C – Certificate

Program Code

C25310P

Financial Aid Eligible

No

Program Contacts

Title

CCP Advisor

Email

ccp@isothermal.edu

Minimum Required Credit Hours
12

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Core

Earn at least 12 credits from the following:

- CIS110 - Introduction to Computers
- MED121 - Medical Terminology I
- MED122 - Medical Terminology II
- OST148 - Medical Insurance and Billing

C25310S - Medical Office Admin Patient Services Representative (Cert)

Program Overview

Curriulum Description
The Medical Office Administration curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

Department(s)
Medical Office Administration

Credential
C – Certificate

Program Code
C25310S

Program Can be Earned 100% Online
Yes

Financial Aid Eligible
Yes

Program Contacts

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Title
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Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

Communication Requirement

Earn at least 3 credits from the following:

- COM231 - Public Speaking

Major Requirements

Major Requirements

Type
Completion Requirement

Core Requirements

Earn at least 9 credits from the following:

- CIS110 - Introduction to Computers
- MED121 - Medical Terminology I
- MED122 - Medical Terminology II

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Patient Services Representative

Earn at least 6 credits from the following:

- BUS270 - Professional Development
- MKT223 - Customer Experience

Degree Maps

Degree Map Name
Medical Office Administration - Patient Services Representative Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	6	0

Requirement Select

- COM231 - Public Speaking
- **AND** MED121 - Medical Terminology I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	6	0

Requirement Select

- CIS110 - Introduction to Computers
- **AND** MED122 - Medical Terminology II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	6	0

Requirement Select

- BUS270 - Professional Development
- **AND** MKT223 - Customer Experience

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25590AI - Artificial Intelligence Certificate

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum. Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study. Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)

Information Technology

Credential

Certificate

Program Code

C25590AI

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title

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Title

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Name

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Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirement

Type

Completion Requirement

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 18 credits from the following:

- CSC113 - Artificial Intelligence Fundamentals
- CSC114 - Artificial Intelligence I
- CSC115 - Machine Learning I
- CSC117 - Artificial Intelligence Tools I
- CSC121 - Python Programming
- CSC221 - Advanced Python Programming

Degree Maps

Degree Map Name
Artificial Intelligence Certificate (C25590AI)
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	6	0

Requirement Select

- CSC121 - Python Programming
- **AND** CSC113 - Artificial Intelligence Fundamentals

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- CSC114 - Artificial Intelligence I
- **AND** CSC221 - Advanced Python Programming

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	3	0

Requirement Select

- CSC115 - Machine Learning I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- CSC117 - Artificial Intelligence Tools I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Students should be able to implement AI platforms that could improve safety, efficiency, accuracy, problem-solving, cost-saving, and the creation of new business opportunities.

C25590C - Information Technology - Computer Programming (Certificate)

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)

Information Technology

Credential

C – Certificate

Program Code

C25590C

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title

Faculty Mentor

Name

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Title

College Navigator

Name

Brandon Burnett

Phone

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bburnett@isothermal.edu

Minimum Required Credit Hours

18

Degree Requirements

Degree Maps

Degree Map Name

Information Technology - Computer Programming Certificate (C25590C)

Total Degree Map Credits

18

Degree Map Effective Catalog Year

2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	6	0

Requirement Select

- CSC113 - Artificial Intelligence Fundamentals
- **AND** CSC121 - Python Programming

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- CIS115 - Introduction to Programming and Logic
- **AND** CSC221 - Advanced Python Programming

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	3	0

Requirement Select

- CSC151 - JAVA Programming

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- CSC251 - Advanced JAVA Programming

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25590CP - Information Technology - Computer Prog & Dev Pathway (cert)

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)

Information Technology

Credential

C – Certificate

Program Code

C25590CP

Program Can be Earned 100% Online

Yes

Financial Aid Eligible
No

Program Contacts

Title
CCP Advisor

Email
ccp@isothermal.edu

Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 18 credits from the following:

- CIS115 - Introduction to Programming and Logic
- CSC121 - Python Programming
- CSC151 - JAVA Programming
- CSC221 - Advanced Python Programming
- CSC251 - Advanced JAVA Programming
- CSC113 - Artificial Intelligence Fundamentals

C25590CS - Information Technology - Cybersecurity (certificate)

Program Overview

Curriulum Description
The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)
Information Technology

Credential
C – Certificate

Program Code
C25590CS

Program Can be Earned 100% Online
Yes

Financial Aid Eligible
Yes

Program Contacts

Title
Faculty Mentor

Name
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Title
College Navigator

Name
Brandon Burnett

Phone
828-395-1463

Email
bburnett@isothermal.edu

Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Cybersecurity

Earn at least 6 credits from the following:
- NET125 - Introduction to Networks
- SEC110 - Security Concepts

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Cybersecurity

Earn at least 12 credits from the following:
- NOS120 - Linux Single User
- SEC160 - Security Administration I
- SEC210 - Intrusion Detection
- NOS110 - Operating Systems Concepts

Degree Maps

Degree Map Name
Information Technology - Cybersecurity Certificate (C25590CS)
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	6	0

Requirement Select

- SEC110 - Security Concepts
- **AND** NOS120 - Linux Single User

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select

- NOS110 - Operating Systems Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select

- NET125 - Introduction to Networks
- **AND** SEC160 - Security Administration I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- SEC210 - Intrusion Detection

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25590I - Information Technology - Business Technology Certificate (C25590I)

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)
Information Technology

Credential
C – Certificate

Program Code
C25590I

Program Can be Earned 100% Online
Yes

Financial Aid Eligible
Yes

Program Contacts

Title
Faculty Mentor

Name
Katlin Mitchell

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Title
College Navigator

Name
Brandon Burnett

Phone
828-395-1463

Email
bburnett@isothermal.edu

Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

IT Business Support

Earn at least 18 credits from the following:

- CSC113 - Artificial Intelligence Fundamentals
- CTS120 - Hardware/Software Support
- CTS287 - Emerging Technologies
- NET125 - Introduction to Networks
- NET126 - Switching and Routing
- NOS110 - Operating Systems Concepts

Degree Maps

Degree Map Name
Information Technology - Business Support Certificate (C25590I)
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	6	0

Requirement Select

- CTS120 - Hardware/Software Support
- **AND** CSC113 - Artificial Intelligence Fundamentals

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select

- NOS110 - Operating Systems Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	3	0

Requirement Select

- NET125 - Introduction to Networks

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- NET126 - Switching and Routing
- **AND** CTS287 - Emerging Technologies

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25590N - Information Technology - Networking Technology (Certificate)

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)

Information Technology

Credential

C – Certificate

Program Code

C25590N

Program Can be Earned 100% Online

Yes

Financial Aid Eligible
Yes

Program Contacts

Title
Faculty Mentor

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Title
College Navigator

Name
Brandon Burnett

Phone
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bburnett@isothermal.edu

Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Network Requirements

Earn at least 6 credits from the following:

- NET125 - Introduction to Networks
- NET126 - Switching and Routing

Operating Systems Requirement

Earn at least 12 credits from the following:

- NOS110 - Operating Systems Concepts
- NOS120 - Linux Single User
- NOS220 - Linux Administration I
- SEC110 - Security Concepts

Degree Maps

Degree Map Name
Information Technology-Networking Certificate (C25590N)
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	6	0

Requirement Select

- NOS120 - Linux Single User
- **AND** SEC110 - Security Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- NOS110 - Operating Systems Concepts
- **AND** NOS120 - Linux Single User

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	3	0

Requirement Select

- NET125 - Introduction to Networks

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- NET126 - Switching and Routing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25590P - Information Technology Pathway (cert)

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)

Information Technology

Credential

C – Certificate

Program Code

C25590P

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title

CCP Advisor

Email

ccp@isothermal.edu

Minimum Required Credit Hours

12

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type

Completion Requirement

Required Core

Earn at least 12 credits from the following:

- CIS110 - Introduction to Computers
- CTI110 - Information Technology Foundations
- CTI120 - Network and Security Foundations
- CTS115 - Information Systems Business Concepts

C25590SP - Information Technology Cybersecurity Pathway (cert)

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)

Information Technology

Credential

C – Certificate

Program Code

C25590SP

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title

CCP Advisor

Email

ccp@isothermal.edu

Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type

Completion Requirement

Major Requirements

Earn at least 18 credits from the following:

- NET125 - Introduction to Networks
- NOS120 - Linux Single User
- SEC110 - Security Concepts
- SEC160 - Security Administration I
- SEC210 - Intrusion Detection
- NOS110 - Operating Systems Concepts

C25590WD - Information Technology - Web Development (cert)

Program Overview

Curriulum Description

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Department(s)

Information Technology

Credential

C – Certificate

Program Code

C25590WD

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title

Faculty Mentor

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Title

College Navigator

Name

Brandon Burnett

Phone

828-395-1463

Email

bburnett@isothermal.edu

Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Web Administration & Design Requirements

Earn at least 6 credits from the following:

- WEB115 - Web Markup and Scripting
- WEB210 - Web Design

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Web Administration & Design Requirements

Earn at least 12 credits from the following:

- WEB140 - Web Development Tools
- WEB182 - PHP Programming
- WEB250 - Database Driven Websites
- CSC113 - Artificial Intelligence Fundamentals

Degree Maps

Degree Map Name
Information Technology-Web Development Certificate (C25590WD)
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	6	0

Requirement Select

- WEB210 - Web Design
- **AND** WEB250 - Database Driven Websites

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select

- CSC113 - Artificial Intelligence Fundamentals

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	3	0

Requirement Select

- WEB115 - Web Markup and Scripting

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- WEB140 - Web Development Tools
- **AND** WEB182 - PHP Programming

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C25800 - Accounting and Finance (cert)

Program Overview

Curriulum Description

The Accounting and Finance curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting and finance profession. Accountants and finance professionals assemble and analyze, process, and communicate essential information about financial operations.

Course work may include accounting, finance, ethics, business law, computer applications, financial planning, insurance, marketing, real estate, selling, and taxation. Related skills are developed through the study of communications, computer applications, financial analysis, critical thinking skills, and ethics.

Graduates should qualify for entry-level accounting and finance positions in many types of organizations including accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, and governmental agencies.

Department(s)

Accounting and Finance

Credential

C – Certificate

Program Code

C25800

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title
Faculty Mentor

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Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 11 credits from the following:

- ACC120 - Principles of Financial Accounting
- ACC121 - Principles of Managerial Accounting
- BUS125 - Personal Finance

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Requirements

Earn at least 3 credits from the following:

- ACC122 - Principles of Financial Accounting II

Required Electives

Earn at least 4 credits from the following:

- ACC129 - Individual Income Taxes
- ACC140 - Payroll Accounting
- ACC150 - Accounting Software Applications
- CTS130 - Spreadsheet

Degree Maps

Degree Map Name
Accounting and Finance Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1		

(8 week)	7	0

Requirement Select

- ACC120 - Principles of Financial Accounting
- **AND** BUS125 - Personal Finance

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	6	0

Requirement Select

- ACC121 - Principles of Managerial Accounting
- **AND** ACC140 - Payroll Accounting

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	2	0

Requirement Select

- ACC150 - Accounting Software Applications

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	3	0

Requirement Select

- ACC122 - Principles of Financial Accounting II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C30100 - Graphic Design (Certificate)

Program Overview

Curriulum Description

The Advertising and Graphic Design curriculum is designed to provide students with knowledge and skills necessary for employment in the graphic design profession which emphasizes design, advertising, illustration, and digital and multimedia preparation of printed and electronic promotional materials.

Students will be trained in the development of concept and design for promotional materials such as newspaper and magazine advertisements, posters, folders, letterheads, corporate symbols, brochures, booklets, preparation of art for printing, lettering and typography, photography, and electronic media.

Graduates should qualify for employment opportunities with graphic design studios, advertising agencies, printing companies, department stores, a wide variety of manufacturing industries, newspapers, and businesses with in-house graphics operations.

Department(s)
Graphic Design

Credential
C – Certificate

Program Code
C30100

Financial Aid Eligible
Yes

Program Contacts

Title
Faculty Mentor

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Title
College Navigator

Name
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bburnett@isothermal.edu

Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Core Requirements

Earn at least 13 credits from the following:

- GRD110 - Typography I
- GRD141 - Graphic Design I

- GRD151 - Computer Design Basics
- GRD152 - Computer Design Technology

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 5 credits from the following:

- GRD121 - Drawing Fundamentals I
- GRD167 - Digital Photography I

Degree Maps

Degree Map Name
Graphic Design Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	6	0

Requirement Select

- GRD151 - Computer Design Basics
- **AND** GRD167 - Digital Photography I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	7	0

Requirement Select

- GRD141 - Graphic Design I
- **AND** GRD152 - Computer Design Technology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	2	0

Requirement Select

- GRD121 - Drawing Fundamentals I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- GRD110 - Typography I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C3010001 - Photography (Certificate)

Program Overview

Curriulum Description

The Advertising and Graphic Design curriculum is designed to provide students with knowledge and skills necessary for employment in the graphic design profession which emphasizes design, advertising, illustration, and digital and multimedia preparation of printed and electronic promotional materials.

Students will be trained in the development of concept and design for promotional materials such as newspaper and magazine advertisements, posters, folders, letterheads, corporate symbols, brochures, booklets, preparation of art for printing, lettering and typography, photography, and electronic media.

Graduates should qualify for employment opportunities with graphic design studios, advertising agencies, printing companies, department stores, a wide variety of manufacturing industries, newspapers, and businesses with in-house graphics operations.

Department(s)

Graphic Design

Credential

C – Certificate

Program Code

C3010001

Financial Aid Eligible

Yes

Program Contacts

Title
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Title
College Navigator

Name
Brandon Burnett

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Minimum Required Credit Hours
16

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Core Requirements

Earn at least 7 credits from the following:

- GRD141 - Graphic Design I
- GRD151 - Computer Design Basics

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Requirements

Earn at least 9 credits from the following:

- GRD160 - Photo Fundamentals I
- GRD167 - Digital Photography I
- GRD168 - Digital Photography II

Degree Maps

Degree Map Name
Graphic Design - Photography Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	6	0

Requirement Select

- GRD151 - Computer Design Basics
- **AND** GRD167 - Digital Photography I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	4	0

Requirement Select
- GRD141 - Graphic Design I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	3	0

Requirement Select
- GRD160 - Photo Fundamentals I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2 (8 week)	3	0

Requirement Select
- GRD168 - Digital Photography II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C3010002 - Animation (certificate)

Program Overview

Curriulum Description

The Advertising and Graphic Design curriculum is designed to provide students with knowledge and skills necessary for employment in the graphic design profession which emphasizes design, advertising, illustration, and digital and multimedia preparation of printed and electronic promotional materials. Students will be trained in the development of concept and design for promotional materials such as newspaper and magazine advertisements, posters, folders, letterheads, corporate symbols, brochures, booklets, preparation of art for printing, lettering and typography, photography, and electronic media. Graduates should qualify for employment opportunities with graphic design studios, advertising agencies, printing companies, department stores, a wide variety of manufacturing industries, newspapers, and businesses with in-house graphics operations.

Department(s)

Graphic Design

Credential

Certificate

Program Code

C3010002

Financial Aid Eligible

No

Program Contacts

Title

Faculty Mentor

Name

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Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type

Completion Requirement

Major Requirements

Earn at least 8 credits from the following:

- GRD121 - Drawing Fundamentals I
- GRD151 - Computer Design Basics
- GRD152 - Computer Design Technology

Other Major Requirements

Other Major Requirements

Type

Completion Requirement

Earn at least 10 credits from the following:

- BPT140 - Introduction to Media Productions
- BPT220 - Emerging Technologies
- BPT255 - Computer-Based

Production

Degree Maps

Degree Map Name
Graphic Design - Animation Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	3	0

Requirement Select
- GRD151 - Computer Design Basics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	6	0

Requirement Select
- GRD152 - Computer Design Technology
- **AND** BPT140 - Introduction to Media Productions

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	5	0

Requirement Select
- GRD121 - Drawing Fundamentals I
- **AND** BPT255 - Computer-Based Production

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	4	0

Requirement Select

- BPT220 - Emerging Technologies

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Produce quality illustrations from concept to finished artwork

Utilize software applications to creatively manipulate and illustratively build digital images which accomplish the design objectives

C30100P - Graphic Design Pathway (cert)

Program Overview

Curriulum Description

The Advertising and Graphic Design curriculum is designed to provide students with knowledge and skills necessary for employment in the graphic design profession which emphasizes design, advertising, illustration, and digital and multimedia preparation of printed and electronic promotional materials.

Students will be trained in the development of concept and design for promotional materials such as newspaper and magazine advertisements, posters, folders, letterheads, corporate symbols, brochures, booklets, preparation of art for printing, lettering and typography, photography, and electronic media.

Graduates should qualify for employment opportunities with graphic design studios, advertising agencies, printing companies, department stores, a wide variety of manufacturing industries, newspapers, and businesses with in-house graphics operations.

Department(s)

Graphic Design

Credential

C – Certificate

Program Code

C30100P

Financial Aid Eligible

No

Program Contacts

Title

CCP Advisor

Email
ccp@isothermal.edu

Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Core Requirements

Earn at least 13 credits from the following:

- GRD110 - Typography I
- GRD141 - Graphic Design I
- GRD151 - Computer Design Basics
- GRD152 - Computer Design Technology

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 5 credits from the following:

- GRD121 - Drawing Fundamentals I
- GRD167 - Digital Photography I

Degree Maps

C3012001 - Basic Audio Production (Certificate)

Program Overview

Curriulum Description
Students enrolled in the Broadcasting Production Technology curriculum will develop professional skills in radio, television, audio, video, and related applications.

Training will emphasize speech, script writing, production planning, editing, and post production. Students will also study the development of the broadcasting industry, sales, ethics, law, marketing, and management. Hands-on training and teamwork approaches are essential to the instructional process.

Upon successful completion, students are prepared to enter broadcasting, production, and related industries in a variety of occupations.

Department(s)
Audio and Video Production Technology

Credential
C – Certificate

Program Code
C3012001

Financial Aid Eligible
Yes

Program Contacts

Title
Faculty Mentor

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Title
College Navigator

Name
Brandon Burnett

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Minimum Required Credit Hours
17

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 7 credits from the following:
- BPT112 - Media Writing
- BPT121 - Media Speech Techniques

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Earn at least 10 credits from the following:
- BPT131 - Audio Production I
- BPT132 - Audio Production II
- BPT135 - Audio Performance I

Degree Maps

Degree Map Name
Basic Audio Production Certificate
Total Degree Map Credits
17
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	7	0

Requirement Select
- BPT121 - Media Speech Techniques
- **AND** BPT131 - Audio Production I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	2	0

Requirement Select

- BPT135 - Audio Performance I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	4	0

Requirement Select

- BPT132 - Audio Production II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	4	0

Requirement Select

- BPT112 - Media Writing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C3012003 - Podcast Streaming (cert)

Program Overview

Curriulum Description

Students enrolled in the Broadcasting Production Technology curriculum will develop professional skills in radio, television, audio, video, and related applications.

Training will emphasize speech, script writing, production planning, editing, and post production. Students will also study the development of the broadcasting industry, sales, ethics, law, marketing, and management. Hands-on training and teamwork approaches are essential to the instructional process.

Upon successful completion, students are prepared to enter broadcasting, production, and related industries in a variety of occupations.

Department(s)

Audio and Video Production Technology

Credential

C – Certificate

Program Code

C3012003

Financial Aid Eligible

No

Program Contacts

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Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 3 credits from the following:

- BPT140 - Introduction to Media Productions

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 8 credits from the following:

- BPT131 - Audio Production I
- BPT135 - Audio Performance I
- BPT235 - Video Performance I

Other Required Courses

Earn at least 4 credits from the following:

- BPT220 - Emerging Technologies

Other Major Options

Earn at least 3 credits from the following:

- BUS139 - Entrepreneurship I
- BUS230 - Small Business Management
- MKT223 - Customer Experience

Degree Maps

Degree Map Name
Audio and Video Production - Podcast Streaming Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	4	0

Requirement Select

- BPT131 - Audio Production I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	5	0

Requirement Select

- BPT140 - Introduction to Media Productions
- **AND** BPT135 - Audio Performance I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	2	0

Requirement Select

- BPT235 - Video Performance I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	7	0

Requirement Select

- BPT220 - Emerging Technologies
- **AND** BUS230 - Small Business Management

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C30120P - Streaming/ Podcasting Certificate Pathway

Program Overview

Curriulum Description

Students enrolled in the Audio and Video Production Technology curriculum will develop professional skills in audio, video, and related applications.

Training will emphasize speech, writing, production planning, postproduction, and distribution. Students will also study the evolution of media, revenue models, entrepreneurial opportunities, and governmental regulations. Hands-on training, troubleshooting, collaboration, and time management skills are essential to the instructional process.

Upon successful completion, students are prepared to obtain audio and/or video-related employment.

Department(s)

Audio and Video Production Technology

Credential

C – Certificate

Program Code

C30120P

Financial Aid Eligible

No

Program Contacts

Title

CCP Advisor

Email

ccp@isothermal.edu

Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type
Completion Requirement

Complete ALL of the following Courses:
- BPT131 - Audio Production I
- BPT135 - Audio Performance I
- BPT140 - Introduction to Media Productions
- BPT220 - Emerging Technologies
- BPT235 - Video Performance I

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- BUS230 - Small Business Management

Learning Outcomes

Learning Outcomes

Demonstrate proficiency in operating a video camera in both field and studio modes evaluated by the camera rubric

Use basic three point lighting, both in studio and field, according to industry standards

Identify legal issues and regulations of broadcast stations as measured by specific assignments and testing questions

Write both a one-column radio script and a two-column video script according to industry formatting standards

Successfully edit video and audio with a professional non-linear editing software program as evaluated by a specific rubric

Identify organization and strategies used by broadcast stations as measured by specific testing questions

Operate audio boards and audio production equipment according to industry standards

Demonstrate professional speaking and presentation skills for audio and video productions, according to industry standards

C3513001 - Electrical Wiring (Certificate)

Program Overview

Curriulum Description

This curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical systems.

Department(s)

Electrical Systems Technology

Credential

C – Certificate

Program Code

C3513001

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

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Title
College Navigator

Name
Brandon Burnett

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Minimum Required Credit Hours

17

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Core

Earn at least 17 credits from the following:

- ELC112 - DC/AC Electricity
- ELC113 - Residential Wiring
- ELC114 - Commercial Wiring
- ELC115 - Industrial Wiring

Degree Maps

Degree Map Name
Electrical Wiring Certificate
Total Degree Map Credits
17
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	9	0

Requirement Select
- ELC112 - DC/AC Electricity
- **AND** ELC113 - Residential Wiring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	4	0

Requirement Select
- ELC114 - Commercial Wiring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	4	0

Requirement Select
- ELC115 - Industrial Wiring

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

C3513002 - Industrial Controls (Certificate)

Program Overview

Curriulum Description

This curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical systems.

Department(s)

Electrical Systems Technology

Credential

C – Certificate

Program Code

C3513002

Financial Aid Eligible

No

Program Contacts

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Minimum Required Credit Hours

16

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Core

Earn at least 13 credits from the following:

- ELC112 - DC/AC Electricity
- ELC115 - Industrial Wiring
- ELC117 - Motors and Controls

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Earn at least 3 credits from the following:
- ELN231 - Industrial Controls

Degree Maps

Degree Map Name
Industrial Controls Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	5	0

Requirement Select
- ELC112 - DC/AC Electricity

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	4	0

Requirement Select
- ELC117 - Motors and Controls

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	7	0

Requirement Select
- ELC115 - Industrial Wiring
- **AND** ELN231 - Industrial Controls

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C351301P - Electrical Systems Technology Pathway (cert)

Program Overview

Curriulum Description

This curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical systems.

Department(s)

Electrical Systems Technology

Credential

C – Certificate

Program Code

C351301P

Financial Aid Eligible

No

Program Contacts

Title

CCP Advisor

Email

ccp@isothermal.edu

Minimum Required Credit Hours

17

Degree Requirements

C3514001 - Basic Carpentry (Certificate)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare individuals to apply technical knowledge and skills to the fields of architecture, construction, construction management, and other associated professions.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to design and construction occupations.

Graduates of this pathway should qualify for entry-level jobs in architectural, engineering, construction and trades professions as well as positions in industry and government.

Building Construction Technology: A program that prepares individuals to apply technical knowledge and skills to residential and commercial building construction and remodeling. Includes instruction in construction equipment and safety; site preparation and layout; construction estimating; print reading; building codes; framing; masonry; heating, ventilation, and air conditioning; electrical and mechanical systems; interior and exterior finishing; and plumbing.

Department(s)

Building Construction Technology

Credential

C – Certificate

Program Code

C3514001

Financial Aid Eligible

No

Program Contacts

Title
Faculty Mentor

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Michael Lyda

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Title
College Navigator

Name
Brandon Burnett

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bburnett@isothermal.edu

Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 18 credits from the following:

- ARC112 - Construction Materials & Methods
- BPR130 - Print Reading-Construction
- CAR111 - Carpentry I
- CST131 - OSHA/Safety/Certification

Degree Maps

Degree Map Name
Basic Carpentry Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	8	0

Requirement Select

- CAR111 - Carpentry I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	7	0

Requirement Select

- ARC112 - Construction Materials & Methods
- **AND** BPR130 - Print Reading-Construction

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	3	0

Requirement Select

- CST131 - OSHA/Safety/Certification

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C3514002 - Advanced Carpentry (Certificate)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare individuals to apply technical knowledge and skills to the fields of architecture, construction, construction management, and other associated professions.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to design and construction occupations.

Graduates of this pathway should qualify for entry-level jobs in architectural, engineering, construction and trades professions as well as positions in industry and government.

Building Construction Technology: A program that prepares individuals to apply technical knowledge and skills to residential and commercial building construction and remodeling. Includes instruction in construction equipment and safety; site preparation and layout; construction estimating; print reading; building codes; framing; masonry; heating, ventilation, and air conditioning; electrical and mechanical systems; interior and exterior finishing; and plumbing.

Department(s)

Building Construction Technology

Credential

C – Certificate

Program Code

C3514002

Financial Aid Eligible

No

Program Contacts

Title

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bburnett@isothermal.edu

Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type

Completion Requirement

Required Courses

Earn at least 17 credits from the following:

- ARC131 - Building Codes
- CAR120 - Commercial Carpentry I
- CAR150 - Concrete Construction
- CMT120 - Codes and Inspections

Degree Maps

Degree Map Name
Advanced Carpentry Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	5	0

Requirement Select

- CAR150 - Concrete Construction

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	4	0

Requirement Select

- ARC112 - Construction Materials & Methods

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	3	0

Requirement Select

- ARC131 - Building Codes

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	6	0

Requirement Select

- CAR120 - Commercial Carpentry I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C3514003 - Basic Plumbing (Certificate)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare individuals to apply technical knowledge and skills to the fields of architecture, construction, construction management, and other associated professions.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to design and construction occupations.

Graduates of this pathway should qualify for entry-level jobs in architectural, engineering, construction and trades professions as well as positions in industry and government.

Building Construction Technology: A program that prepares individuals to apply technical knowledge and skills to residential and commercial building construction and remodeling. Includes instruction in construction equipment and safety; site preparation and layout; construction estimating; print reading; building codes; framing; masonry; heating, ventilation, and air conditioning; electrical and mechanical systems; interior and exterior finishing; and plumbing.

Department(s)

Building Construction Technology

Credential

C – Certificate

Program Code

C3514003

Financial Aid Eligible

No

Program Contacts

Title
Faculty Mentor

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Title
College Navigator

Name
Brandon Burnett

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bburnett@isothermal.edu

Minimum Required Credit Hours
17

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 17 credits from the following:

- ARC112 - Construction Materials & Methods
- BPR130 - Print Reading-Construction
- CST131 - OSHA/Safety/Certification
- PLU115 - Basic Plumbing
- PLU211 - Commercial/Ind Plumbing

Degree Maps

Degree Map Name
Basic Plumbing Certificate
Total Degree Map Credits
17
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	11	0

Requirement Select

- ARC112 - Construction Materials & Methods
- **AND** BPR130 - Print Reading-Construction
- **AND** PLU115 - Basic Plumbing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	6	0

Requirement Select

- CST131 - OSHA/Safety/ Certification
- **AND** PLU211 - Commercial/Ind Plumbing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C3514004 - Basic HVAC (Certificate)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare individuals to apply technical knowledge and skills to the fields of architecture, construction, construction management, and other associated professions.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to design and construction occupations.

Graduates of this pathway should qualify for entry-level jobs in architectural, engineering, construction and trades professions as well as positions in industry and government.

Building Construction Technology: A program that prepares individuals to apply technical knowledge and skills to residential and commercial building construction and remodeling. Includes instruction in construction equipment and safety; site preparation and layout; construction estimating; print reading; building codes; framing; masonry; heating, ventilation, and air conditioning; electrical and mechanical systems; interior and exterior finishing; and plumbing.

Department(s)

Building Construction Technology

Credential

C – Certificate

Program Code

C3514004

Financial Aid Eligible

No

Program Contacts

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Minimum Required Credit Hours
18

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type
Completion Requirement

Complete ALL of the following Courses:

- ARC112 - Construction Materials & Methods
- AHR110 - Introduction to Refrigeration
- AHR120 - HVACR Maintenance
- AHR151 - HVAC Duct Systems I
- AHR210 - Residential Building Code
- AHR211 - Residential System Design

Degree Maps

Degree Map Name
Basic HVAC Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	5	0

Requirement Select

- AHR110 - Introduction to Refrigeration

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	6	0

Requirement Select

- AHR210 - Residential Building Code
- **AND** ARC112 - Construction Materials & Methods

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	2	0

Requirement Select

- AHR120 - HVACR Maintenance

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	3	0

Requirement Select

- AHR211 - Residential System Design

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	2	0

Requirement Select

- AHR151 - HVAC Duct Systems I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C351403P - Building Construction Technology Basic Plumb Pathway (Cert)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare individuals to apply technical knowledge and skills to the fields of architecture, construction, construction management, and other associated professions.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to design and construction occupations.

Graduates of this pathway should qualify for entry-level jobs in architectural, engineering, construction and trades professions as well as positions in industry and government.

Building Construction Technology: A program that prepares individuals to apply technical knowledge and skills to residential and commercial building construction and remodeling. Includes instruction in construction equipment and safety; site preparation and layout; construction estimating; print reading; building codes; framing; masonry; heating, ventilation, and air conditioning; electrical and mechanical systems; interior and exterior finishing; and plumbing.

Department(s)

Building Construction Technology

Credential

C – Certificate

Program Code

C351403P

Financial Aid Eligible

No

Program Contacts

Title

CCP Advisor

Email

ccp@isothermal.edu

Minimum Required Credit Hours

17

Degree Requirements

C35140BP - Building Construction Technology Basic Carpen Pathway (cert)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare individuals to apply technical knowledge and skills to the fields of architecture, construction, construction management, and other associated professions.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to design and construction occupations.

Graduates of this pathway should qualify for entry-level jobs in architectural, engineering, construction and trades professions as well as positions in industry and government.

Building Construction Technology: A program that prepares individuals to apply technical knowledge and skills to residential and commercial building construction and remodeling. Includes instruction in construction equipment and safety; site preparation and layout; construction estimating; print reading; building codes; framing; masonry; heating, ventilation, and air conditioning; electrical and mechanical systems; interior and exterior finishing; and plumbing.

Department(s)

Building Construction Technology

Credential

C – Certificate

Program Code

C35140BP

Financial Aid Eligible

No

Program Contacts

Title

CCP Advisor

Email

ccp@isothermal.edu

Minimum Required Credit Hours

18

Degree Requirements

C4020001 - Electronics Engineering Tech Electronics & Automation (Cert)

Program Overview

Curriulum Description

The Electronics Engineering Technology curriculum prepares individuals to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems.

A broad-based core of courses, including basic electricity, solid-state fundamentals, digital concepts, and microprocessors, ensures the student will develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the student's ability to analyze and troubleshoot electronic systems.

Graduates should qualify for employment as engineering assistants or electronic technicians with job titles such as electronics engineering technician, field service technician, instrumentation technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

Department(s)

Electronics Engineering Technology

Credential

C – Certificate

Program Code

C4020001

Financial Aid Eligible

Yes

Program Contacts

Title

Faculty Mentor

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Title

College Navigator

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Minimum Required Credit Hours

16

Degree Requirements

Simple Requirements

Major Requirements

Technical Core

Type

Completion Requirement

Complete ALL of the following Courses:

- ATR112 - Introduction to Automation
- ELC127 - Software for Technicians
- ELN133 - Digital Electronics
- ELN232 - Introduction to Microprocessors
- NET125 - Introduction to Networks

Degree Maps

Degree Map Name
Electronics Engineering Tech Electronics & Automation Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	5	0

Requirement Select

- ELC127 - Software for Technicians
- **AND** ATR112 - Introduction to Automation

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	4	0

Requirement Select

- ELN133 - Digital Electronics

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	7	0

Requirement Select

- ELN232 - Introduction to Microprocessors
- **AND** NET125 - Introduction to Networks

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits
0
Total Major Credits
0
Total Minor Credits
0
Total Elective Credits
0

C4020002 - Electronics Engineering Tech Electric Utility (Certificate)

Program Overview

Curriulum Description

The Electronics Engineering Technology curriculum prepares individuals to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems.

A broad-based core of courses, including basic electricity, solid-state fundamentals, digital concepts, and microprocessors, ensures the student will develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the student's ability to analyze and troubleshoot electronic systems.

Graduates should qualify for employment as engineering assistants or electronic technicians with job titles such as electronics engineering technician, field service technician, instrumentation technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

Department(s)

Electronics Engineering Technology

Credential

C – Certificate

Program Code

C4020002

Financial Aid Eligible

Yes

Program Contacts

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Title
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bburnett@isothermal.edu

Minimum Required Credit Hours

16

Degree Requirements

Simple Requirements

Major Requirements

Technical Core

Type
Completion Requirement

Complete ALL of the following Courses:

- ELC139 - AC Circuit Analysis
- ELN133 - Digital Electronics
- EUS110 - Introduction to Electric Utility Industry
- EUS130 - Electric Utility Print Reading

Degree Maps

Degree Map Name
Electric Utility Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	12	0

Requirement Select

- ELC139 - AC Circuit Analysis
- **AND** ELN133 - Digital Electronics
- **AND** EUS110 - Introduction to Electric Utility Industry

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	4	0

Requirement Select

- EUS130 - Electric Utility Print Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C40200P - Electronics Engineering Technology Pathway (cert)

Program Overview

Curriulum Description

This curriculum is designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, construction technicians and managers, industrial and technology managers, or research technicians.

This course of study prepares the students to apply basic engineering principles and technical skills to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems. Includes instruction in mathematics, basic electricity, solid-state fundamentals, digital concepts, and microprocessors or programmable logic controllers.

Graduates should qualify for employment as electronics engineering technician, field service technician, instrumentation technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

Department(s)

Electronics Engineering Technology

Credential

C – Certificate

Program Code

C40200P

Financial Aid Eligible

No

Program Contacts

Title

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Minimum Required Credit Hours

16

Degree Requirements

C40320 - Mechanical Engineering Technology (Certificate)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial and technology managers, or research technicians.

Mechanical Engineering Technology: A course of study that prepares the students to use basic engineering principles and technical skills to design, develop, test, and troubleshoot projects involving mechanical systems. Includes instruction in principles of mechanics, applications to specific engineering systems, design testing procedures, prototype and operational testing and inspection procedures, manufacturing system-testing procedures, test equipment operation and maintenance, computer applications, critical thinking, planning and problem solving, and oral and written communications. Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET.

Department(s)

Mechanical Engineering Technology

Credential

C – Certificate

Program Code

C40320

Financial Aid Eligible

Yes

Program Contacts

Title

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Title

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Name

Brandon Burnett

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828-395-1463

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Minimum Required Credit Hours

18

Degree Requirements

Simple Requirements

Major Requirements

Required Core

Type
Completion Requirement

Complete ALL of the following Courses:
- DFT151 - CAD I
- HYD110 - Hydraulics/Pneumatics I
- MEC161 - Manufacturing Processes I
- MEC180 - Engineering Materials

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Complete ALL of the following Courses:
- ISC132 - Manufacturing Quality Control
- MEC231 - Computer-Aided Manufacturing I

Degree Maps

Degree Map Name
Mechanical Engineering Technology Certificate
Total Degree Map Credits
18
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1		
		9	0

Requirement Select
- MEC161 - Manufacturing Processes I
- **AND** DFT151 - CAD I
- **AND** ISC132 - Manufacturing Quality Control

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select
- MEC231 - Computer-Aided Manufacturing I
- **AND** HYD110 - Hydraulics/Pneumatics I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term		

2	3	0

Requirement Select

- MEC180 - Engineering Materials

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C4032002 - Mechanical Engineering Technology Transition (Certificate)

Program Overview

Curriulum Description

The Mechanical Engineering Technology curriculum prepares graduates for employment as technicians in the diversified mechanical and manufacturing engineering fields. Mechanical Engineering technicians assist in design, development, testing, process design and improvement, and troubleshooting and repair of engineered systems. Emphasis is placed on the integration of theory and hands-on application of engineering principles.

In addition to course work in engineering graphics, engineering fundamentals, materials and manufacturing processes, mathematics, and physics, students will study computer applications, critical thinking, planning and problem solving, and oral and written communications.

Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET.

Department(s)

Mechanical Engineering Technology

Credential

C – Certificate

Program Code

C4032002

Financial Aid Eligible

Yes

Program Contacts

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Minimum Required Credit Hours
17

Degree Requirements

Simple Requirements

General Education

Mathematics Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- MAT121 - Algebra/Trigonometry I
- MAT171 - Precalculus Algebra

Major Requirements

Required Core

Type
Completion Requirement

Complete ALL of the following Courses:
- DFT151 - CAD I
- EGR250 - Statics/Strength of Mater
- MEC180 - Engineering Materials

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- DFT152 - CAD II

Degree Maps

Degree Map Name
Mechanical Engineering Technology Transition Certificate

Total Degree Map Credits
18

Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- MAT171 - Precalculus Algebra
- **AND** DFT151 - CAD I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- MEC180 - Engineering Materials
- **AND** DFT152 - CAD II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	5	0

Requirement Select

- EGR250 - Statics/Strength of Mater

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C4032003 - Mechanical Engineering Advanced Technology (Certificate)

Program Overview

Curriulum Description

The Mechanical Engineering Technology curriculum prepares graduates for employment as technicians in the diversified mechanical and manufacturing engineering fields. Mechanical Engineering technicians assist in design, development, testing, process design and improvement, and troubleshooting and repair of engineered systems. Emphasis is placed on the integration of theory and hands-on application of engineering principles.

In addition to course work in engineering graphics, engineering fundamentals, materials and manufacturing processes, mathematics, and physics, students will study computer applications, critical thinking, planning and problem solving, and oral and written communications.

Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET.

Department(s)

Mechanical Engineering Technology

Credential

C – Certificate

Program Code

C4032003

Financial Aid Eligible

No

Program Contacts

Title

Faculty Mentor

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Title

College Navigator

Name

Brandon Burnett

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Minimum Required Credit Hours

15

Degree Requirements

Simple Requirements

Major Requirements

Required Core

Type

Completion Requirement

Complete ALL of the following Courses:

- DFT151 - CAD I
- HYD110 - Hydraulics/Pneumatics I
- MEC161 - Manufacturing Processes I

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Complete ALL of the following Courses:

- EGR110 - Introduction to Engineering Technology
- MAC141 - Machining Applications I

Degree Maps

Degree Map Name
Mechanical Engineering Advanced Technology Certificate
Total Degree Map Credits
15
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	4	0

Requirement Select

- MAC141 - Machining Applications I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	3	0

Requirement Select

- MEC161 - Manufacturing Processes I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select
- DFT151 - CAD I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	5	0

Requirement Select
- HYD110 - Hydraulics/Pneumatics I
- **AND** EGR110 - Introduction to Engineering Technology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C403203P - Mechanical Engineering Technology Adv. Pathway (cert)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects.

Course work includes mathematics, natural sciences, engineering sciences and technology.

Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial and technology managers, or research technicians.

Mechanical Engineering Technology: A course of study that prepares the students to use basic engineering principles and technical skills to design, develop, test, and troubleshoot projects involving mechanical systems. Includes instruction in principles of mechanics, applications to specific engineering systems, design testing procedures, prototype and operational testing and inspection procedures, manufacturing system-testing procedures, test equipment operation and maintenance, computer applications, critical thinking, planning and problem solving, and oral and written communications. Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET.

Department(s)
Mechanical Engineering Technology

Credential
C – Certificate

Program Code
C403203P

Financial Aid Eligible
No

Program Contacts

Title
CCP Advisor

Email
ccp@isothermal.edu

Minimum Required Credit Hours
15

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type
Completion Requirement

Complete ALL of the following Courses:

- DFT151 - CAD I
- EGR110 - Introduction to Engineering Technology
- HYD110 - Hydraulics/Pneumatics I
- MAC141 - Machining Applications I
- MEC161 - Manufacturing Processes I

C40350I - Mechatronics Engineering Technology - Indus. Cyber. (cert)

Program Overview

Curriulum Description
Pathway Description: These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects. Course work includes mathematics, natural sciences, engineering sciences and technology. Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial and technology managers, or research technicians.

Mechatronics Engineering Technology: A course of study that prepares the students to use basic engineering principles and technical skills in developing and testing automated, servomechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures. Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement, and control systems, and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry examinations.

Department(s)
Mechatronics Engineering Technology

Credential
C – Certificate

Program Code
C40350I

Financial Aid Eligible
Yes

Program Contacts

Title
Faculty Mentor

Name
Lee Roach

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Minimum Required Credit Hours
17

Degree Requirements

Simple Requirements

Major Requirements

Major Requirement

Type
Completion Requirement

Complete ALL of the following Courses:

- ATR112 - Introduction to Automation
- ELC128 - Introduction to Programmable Logic Controller
- ELC132 - Electrical Drawings

Other Major Requirements

Required Track

Type
Completion Requirement

Complete ALL of the following Courses:

- CTI120 - Network and Security Foundations
- SEC110 - Security Concepts
- SEC160 - Security Administration I

Degree Maps

Degree Map Name
Mechatronics Engineering Technology Industrial Cyber Certificate
Total Degree Map Credits
17
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	6	0

Requirement Select

- ATR112 - Introduction to Automation
- **AND** SEC110 - Security Concepts

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	3	0

Requirement Select

- CTI120 - Network and Security Foundations

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	6	0

Requirement Select

- ELC128 - Introduction to Programmable Logic Controller
- **AND** SEC160 - Security Administration I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	2	0

Requirement Select

- ELC132 - Electrical Drawings

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C40350M - Mechatronics Engineering Technology (cert)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects. Course work includes mathematics, natural sciences, engineering sciences and technology. Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial and technology managers, or research technicians.

Mechatronics Engineering Technology: A course of study that prepares the students to use basic engineering principles and technical skills in developing and testing automated, servomechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures. Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement, and control systems, and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry examinations.

Department(s)

Mechatronics Engineering Technology

Credential

C – Certificate

Program Code

C40350M

Financial Aid Eligible

Yes

Program Contacts

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Minimum Required Credit Hours

16

Degree Requirements

Simple Requirements

Major Requirements

Major Requirement

Type

Completion Requirement

Complete ALL of the following Courses:

- ATR112 - Introduction to Automation
- DFT151 - CAD I
- ELN133 - Digital Electronics
- ISC121 - Environmental Health & Safety
- MEC130 - Mechanisms

Degree Maps

Degree Map Name
Mechatronics Engineering Technology Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	3	0

Requirement Select

- ATR112 - Introduction to Automation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	10	0

Requirement Select

- DFT151 - CAD I
- **AND** ELN133 - Digital Electronics
- **AND** MEC130 - Mechanisms

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	3	0

Requirement Select

- ISC121 - Environmental Health & Safety

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C40350P - Mechatronics Pathway

Program Overview

Department(s)
Mechatronics Engineering Technology

Credential
Certificate Pathway

Program Code
C40350P

Financial Aid Eligible
No

Program Contacts

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CCP Advisor

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Minimum Required Credit Hours
16

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements Safety

Type
Completion Requirement

Earn at least 3 credits from the following:
- ISC121 - Environmental Health & Safety

Other Major Requirements

Major Requirements Safety

Type
Completion Requirement

Major Requirements

Earn at least 13 credits from the following:
- ATR112 - Introduction to Automation
- DFT151 - CAD I
- ELN133 - Digital Electronics
- MEC130 - Mechanisms

Degree Maps

Learning Outcomes

Learning Outcomes

Demonstrate an understanding of various Mechatronics systems.

C45380 - Social and Human Services (Certificate)

Program Overview

Curriulum Description

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

Department(s)

Social and Human Services

Credential

C – Certificate

Program Code

C45380

Financial Aid Eligible

No

Program Contacts

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Title
College Navigator

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Minimum Required Credit Hours

16

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type
Completion Requirement

Complete ALL of the following Courses:

- HSE110 - Introduction to Human Services
- HSE123 - Interviewing Techniques for

Human Services
- HSE212 - Group Dynamics
- HSE225 - Crisis and Intervention Principles
- PSY150 - General Psychology

Other

ACA Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Social and Human Services Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** HSE123 - Interviewing Techniques for Human Services
- **AND** HSE212 - Group Dynamics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select
- HSE110 - Introduction to Human Services
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- HSE225 - Crisis and Intervention Principles

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C45380A - Social and Human Services - Addiction and Recovery (cert)

Program Overview

Curriulum Description

The Human Services Technology/Addiction and Recovery Studies concentration prepares students to assist in drug and alcohol counseling, prevention-oriented educational activities, rehabilitation with recovering clients, managing community-based programs, counseling in residential facilities, and pursuit of four-year degrees.

Course work includes classroom and experiential activities oriented toward an overview of chemical dependency, psychological/sociological process, the twelve Core Functions, intervention techniques with individuals in groups, and follow-up activities with recovering clients.

Graduates should qualify for positions as substance abuse counselors, DWI counselors, halfway house workers, residential facility employees, and substance education specialists. With educational and clinical experiences, graduates can obtain certification by the North Carolina Substance Abuse Board.

Department(s)

Social and Human Services

Credential

C – Certificate

Program Code

C45380A

Financial Aid Eligible

No

Program Contacts

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Title
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Minimum Required Credit Hours
16

Degree Requirements

Simple Requirements

Major Requirements

Concentration Requirement

Type
Completion Requirement

Complete ALL of the following Courses:

- SAB110 - Intro to Addiction & Recovery Studies
- SAB120 - Intake and Assessment
- SAB135 - Addictive Process
- SAB210 - Addiction & Recovery Counseling
- SAB240 - Diversity, Ethics, & Trends in Addiction & Recovery
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Social and Human Services Addiction and Recovery Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** SAB110 - Intro to Addiction & Recovery Studies
- **AND** SAB120 - Intake and Assessment

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select

- SAB240 - Diversity, Ethics, & Trends in Addiction & Recovery

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	3	0

Requirement Select

- SAB210 - Addiction & Recovery Counseling

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- SAB135 - Addictive Process

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C45380C - Social and Human Services- Child Advocacy (Certificate)

Program Overview

Curriulum Description

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

Department(s)

Social and Human Services

Credential

C – Certificate

Program Code

C45380C

Program Contacts

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Minimum Required Credit Hours

12

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type

Completion Requirement

Earn at least 12 credits from the following:

- CAS110 - Perspectives on Child Maltreatment and Advocacy
- CAS120 - Cultural Awareness in Child

Maltreatment & Advocacy
- CAS210 - Professional & Systems Responses to Child Maltreatment
- CAS220 - Responding to the Survivor of Child Abuse

Degree Maps

Degree Map Name
Social and Human Services - Child Advocacy Certificate
Total Degree Map Credits
12
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	3	0

Requirement Select
- CAS120 - Cultural Awareness in Child Maltreatment & Advocacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select
- CAS110 - Perspectives on Child Maltreatment and Advocacy

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	3	0

Requirement Select
- CAS210 - Professional & Systems Responses to Child Maltreatment

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- CAS220 - Responding to the Survivor of Child Abuse

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C45380E - Social and Human Services - Equine Assisted Services (cert)

Program Overview

Curriulum Description

The Social and Human Services curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and behavioral health services. Along with core courses, students take courses which prepare them for specialization in specific human service areas. Coursework includes the development of professional knowledge, skills, and values in human services. Opportunities for experiential learning allow students to apply knowledge and skills learned in the classroom. Graduates should qualify for positions in government, private, and nonprofit social and human services agencies. Graduates may choose to transfer and continue their education at a variety of colleges and universities.

Department(s)

Social and Human Services

Credential

Certificate

Program Code

C45380E

Financial Aid Eligible

No

Program Contacts

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Title
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Minimum Required Credit Hours
16

Degree Requirements

Simple Requirements

Major Requirements

Requirements

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- EQU110 - Introduction to Therapeutic Horsemanship
- EQU115 - Principles of Equine Assisted Activities
- EQU125 - Equine Behavior
- EQU210 - Training the Therapeutic Horse
- EQU215 - Equine Assisted Activities-Teaching

Other Major Requirements

ACA Requirement

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Social and Human Services Equine Assisted Services Certificate

Total Degree Map Credits
16

Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	4	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** EQU110 - Introduction to Therapeutic Horsemanship

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select

- EQU115 - Principles of Equine Assisted Activities

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select

- EQU125 - Equine Behavior
- **AND** EQU215 - Equine Assisted Activities-Teaching

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- EQU210 - Training the Therapeutic Horse

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C45380P - Social and Human Services Pathway (certificate)

Program Overview

Curriulum Description

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

Department(s)

Social and Human Services

Credential

C – Certificate

Program Code

C45380P

Financial Aid Eligible

No

Program Contacts

Title

CCP Advisor

Email

ccp@isothermal.edu

Minimum Required Credit Hours

12

Degree Requirements

Degree Maps

C45380S - Social and Human Services - Small Animal Assisted (certificate)

Program Overview

Curriulum Description

The Human Services Technology/Animal Assisted Interactions concentration prepares individuals for entry-level positions in service organizations providing animal interactions. The curriculum prepares students to incorporate specially selected animals in goal-directed interactions to improve human physical, social, emotional, and/or cognitive functioning.

Course work includes a history of the field of animal interventions, relevant scientific evidence regarding the benefits of interactions, theoretical models, application of animal interventions and current trends. Students gain skills in measurement methodology and in animal handling and management.

Graduates should qualify for employment in mental health, youth services, social services, rehabilitation, correction, elder, and educational agencies. Upon completion of the degree, students may be eligible for certification through national or international organizations.

Department(s)

Social and Human Services

Credential

C – Certificate

Program Code

C45380S

Financial Aid Eligible

No

Program Contacts

Title

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Title

College Navigator

Name

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Minimum Required Credit Hours

16

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type

Completion Requirement

Required Courses

Complete ALL of the following Courses:

- AAI110 - Intro to Animal Assisted Interactions
- AAI120 - Animals in Human Lives
- AAI130 - Animal Handling Skills
- AAI230 - Interaction Methodology & Documentation
- HSE110 - Introduction to Human Services
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Social and Human Services Small Animal Assisted Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	4	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** AAI110 - Intro to Animal Assisted Interactions

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- AAI120 - Animals in Human Lives
- **AND** HSE110 - Introduction to Human Services

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring	3	0

Requirement Select

- AAI130 - Animal Handling Skills

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- AAI230 - Interaction Methodology & Documentation

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C45380SP - Social and Human Services - Small Animal Assisted Interactions Pathway

Program Overview

Curriulum Description

The Human Services Technology/Animal Assisted Interactions concentration prepares individuals for entry-level positions in service organizations providing animal interactions. The curriculum prepares students to incorporate specially- selected animals in goal-directed interactions to mental/physical disabilities, social, emotional, and/or cognitive functioning in people.

Course work includes a history of the field of animal interventions, scientific evidence regarding the benefits of interactions, theoretical models, application of the human-animal bond and current trends. Students gain skills in measurement methodology and in animal handling and management.

Graduates should qualify for employment in mental health, physical disabilities, youth services, social services, rehabilitation, correction, elder, and educational agencies. Upon completion of the degree, students may be eligible for certification through national or international organizations

Department(s)

Social and Human Services

Credential

Certificate Pathway

Program Code

C45380SP

Financial Aid Eligible

No

Program Contacts

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Minimum Required Credit Hours
12

Degree Requirements

Degree Maps

C50150 - Computer-Aided Drafting Technology

Program Overview

Curriulum Description
Pathway Description: These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects. Course work includes mathematics, natural sciences, engineering sciences and technology. Graduates should qualify to obtain occupations such as technical service providers, engineering technicians, CAD systems managers, industrial and technology managers, research technicians and graphic technicians.

Computer-Aided Drafting Technology: A course of study that prepares the students to apply technical skills and advanced computer software and hardware to develop plans and related documentation, and manage the hardware and software of a CAD system. Includes instruction in architectural drafting, computer-assisted drafting and design (CADD), creating and managing two and three-dimensional models, linking CAD documents to other software applications, and operating systems. Graduates should qualify for CAD jobs in architectural and engineering consulting firms and industrial design businesses.

Department(s)
Computer-Aided Drafting

Credential
AAS – Associate in Applied Science

Program Code
C50150

Program Can be Earned 100% Online
Yes

Financial Aid Eligible
No

Program Contacts

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Minimum Required Credit Hours
17

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 6 credits from the following:
- DFT151 - CAD I
- DFT152 - CAD II

Required Program Major

Earn at least 6 credits from the following:
- DFT111 - Technical Drafting I
- DFT111A - Technical Drafting I Lab
- DFT112 - Technical Drafting II
- DFT112A - Technical Drafting II Lab

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 5 credits from the following:
- BPR111 - Print Reading
- BPR130 - Print Reading-Construction

Degree Maps

Degree Map Name
Computer Aided Drafting Technology Certificate
Total Degree Map Credits
17
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	3	0

Requirement Select

- DFT111 - Technical Drafting I
- **AND** DFT111A - Technical Drafting I Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	5	0

Requirement Select

- DFT151 - CAD I
- **AND** BPR111 - Print Reading

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	3	0

Requirement Select

- DFT112 - Technical Drafting II
- **AND** DFT112A - Technical Drafting II Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	6	0

Requirement Select

- DFT152 - CAD II
- **AND** BPR130 - Print Reading-Construction

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Utilize standard drafting instruments and equipment, including computers and software

Understand and perform basic drawing principles including sketching, lettering dimensioning, geometric construction and orthographic projections

Produce advanced level drawings including section views, auxiliary views, and assembly drawings for construction and manufacturing

Produce detailed working drawings adhering to standards and guidelines based on physical design parameters

Interpret and apply basic geometric dimensioning and tolerancing principles to mechanical drawings and prints

Create residential/commercial building plans from given data using a CAD system and utilize technology to present designs with written and visual documents

Apply the general steps of the design process to generate a logical plan of action for the design of a new or improved innovative product and produce a technical report communicating the purpose of both the product and design process

Design a product for manufacturability or mock-up construction

C50150P - Computer-Aided Drafting

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects. Course work includes mathematics, natural sciences, engineering sciences and technology. Graduates should qualify to obtain occupations such as technical service providers, engineering technicians, CAD systems managers, industrial and technology managers, research technicians and graphic technicians.

Computer-Aided Drafting Technology: A course of study that prepares the students to apply technical skills and advanced computer software and hardware to develop plans and related documentation, and manage the hardware and software of a CAD system. Includes instruction in architectural drafting, computer-assisted drafting and design (CADD), creating and managing two and three-dimensional models, linking CAD documents to other software applications, and operating systems. Graduates should qualify for CAD jobs in architectural and engineering consulting firms and industrial design businesses.

Department(s)
Computer-Aided Drafting

Credential
C – Certificate

Program Code
C50150P

Program Can be Earned 100% Online
Yes

Financial Aid Eligible
No

Program Contacts

Title
CCP Advisor

Email
ccp@isothermal.edu

Minimum Required Credit Hours
12

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Major Requirements

Earn at least 12 credits from the following:

- DFT111 - Technical Drafting I
- DFT111A - Technical Drafting I Lab
- DFT112 - Technical Drafting II
- DFT112A - Technical Drafting II Lab
- DFT151 - CAD I
- DFT152 - CAD II

Learning Outcomes

Learning Outcomes

Utilize standard drafting instruments and equipment, including computers and software

Understand and perform basic drawing principles including sketching, lettering dimensioning, geometric construction and orthographic projections

Produce advanced level drawings including section views, auxiliary views, and assembly drawings for construction and manufacturing

Produce detailed working drawings adhering to standards and guidelines based on physical design parameters

Interpret and apply basic geometric dimensioning and tolerancing principles to mechanical drawings and prints

Create residential/commercial building plans from given data using a CAD system and utilize technology to present designs with written and visual documents

Apply the general steps of the design process to generate a logical plan of action for the design of a new or improved innovative product and produce a technical report communication the purpose of both the product and design process

Design a product for manufacturability or mock-up construction

C5021001 - Machining (Certificate)

Program Overview

Curriulum Description

Department(s)
Computer Integrated Machining

Credential
C – Certificate

Program Code
C5021001

Financial Aid Eligible
No

Program Contacts

Title
Faculty Mentor

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Title
College Navigator

Name
Brandon Burnett

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828-395-1463

Email
bburnett@isothermal.edu

Minimum Required Credit Hours
12

Degree Requirements

Simple Requirements

Major Requirements

Core Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- MAC141 - Machining Applications I
- MAC142 - Machining Applications II

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- MAC141A - MacHining Applications I Lab
- MAC142A - Machining Applications II Lab

Degree Maps

Degree Map Name
Machining Certificate

Total Degree Map Credits
12
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	6	0

Requirement Select
- MAC141 - Machining Applications I
- **AND** MAC141A - MacHining Applications I Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	6	0

Requirement Select

- MAC142 - Machining Applications II
- **AND** MAC142A - Machining Applications II Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C5021002 - CNC (Certificate)

Program Overview

Curriulum Description

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

Department(s)

Computer Integrated Machining

Credential

C – Certificate

Program Code

C5021002

Financial Aid Eligible

No

Program Contacts

Title
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Brandon Burnett

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Minimum Required Credit Hours
16

Degree Requirements

Simple Requirements

Major Requirements

Core Requirements

Type
Completion Requirement

Complete ALL of the following Courses:
- MAC121 - Introduction to CNC

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- MAC122 - CNC Turning
- MAC124 - CNC Milling
- MAC222 - Advanced CNC Turning
- MAC224 - Advanced CNC Milling
- MAC233 - Appl in CNC Machining

Degree Maps

Degree Map Name
CNC Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	2	0

Requirement Select
- MAC121 - Introduction to CNC

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	2	0

Requirement Select
- MAC124 - CNC Milling

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	2	0

Requirement Select
- MAC122 - CNC Turning

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	2	0

Requirement Select
- MAC222 - Advanced CNC Turning

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2 (8 week)	2	0

Requirement Select
- MAC224 - Advanced CNC Milling

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring (16 week)	6	0

Requirement Select

- MAC233 - Appl in CNC Machining

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C5021003 - Motorsports Machining (Certificate)

Program Overview

Curriulum Description

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

Department(s)

Computer Integrated Machining

Credential

C – Certificate

Program Code

C5021003

Financial Aid Eligible

No

Program Contacts

Title
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Minimum Required Credit Hours
16

Degree Requirements

Simple Requirements

Major Requirements

Core Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- BPR111 - Print Reading
- MAC121 - Introduction to CNC
- MAC124 - CNC Milling
- MAC141 - Machining Applications I
- MEC110 - Introduction to CAD/CAM

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- MAC122 - CNC Turning
- MAC141A - MacHining Applications I Lab

Degree Maps

Degree Map Name
Motorsports Machining Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	2	0

Requirement Select

- BPR111 - Print Reading

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	2	0

Requirement Select

- MAC121 - Introduction to CNC

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	6	0

Requirement Select

- MAC141 - Machining Applications I
- **AND** MAC141A - MacHining Applications I Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	2	0

Requirement Select

- MEC110 - Introduction to CAD/CAM

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	2	0

Requirement Select
- MAC124 - CNC Milling

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	2	0

Requirement Select
- MAC122 - CNC Turning

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C5021004 - Advanced Motorsports Machining (Certificate)

Program Overview

Curriulum Description

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

Department(s)

Computer Integrated Machining

Credential

C – Certificate

Program Code

C5021004

Financial Aid Eligible

No

Program Contacts

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Minimum Required Credit Hours
16

Degree Requirements

Simple Requirements

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- MEC231 - Computer-Aided Manufacturing I

Technical Elective

Type
Completion Requirement

Earn at least 13 credits from the following:

- AUT211 - Automotive Machining
- DFT154 - Introduction to Solid Modeling
- MAC234 - Advanced Multi-Axis Machining
- MAC234A - Advanced Multi-Axis MacHining Lab
- WLD112 - Basic Welding Processes

Degree Maps

Degree Map Name
Advanced Motorsports Machining Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	4	0

Requirement Select

- AUT211 - Automotive Machining

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	3	0

Requirement Select

- MEC231 - Computer-Aided Manufacturing I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	4	0

Requirement Select

- MAC234 - Advanced Multi-Axis Machining
- **AND** MAC234A - Advanced Multi-Axis MacHining Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	5	0

Requirement Select

- DFT154 - Introduction to Solid Modeling
- **AND** WLD112 - Basic Welding Processes

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits** 0
0	
Total Minor Credits	**Total Elective Credits**

0	0

C50210P - Computer-Integrated Machining Pathway (cert)

Program Overview

Curriulum Description

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

Department(s)

Computer Integrated Machining

Credential

C – Certificate

Program Code

C50210P

Financial Aid Eligible

No

Program Contacts

Title
CCP Advisor

Email
ccp@isothermal.edu

Minimum Required Credit Hours
16

Degree Requirements

C5024001 - Industrial Systems Technology (Certificate)

Program Overview

Curriulum Description
The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to safely service, maintain, repair, or install equipment. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial systems.

Students will learn multi-craft technical skills in print reading, mechanical systems maintenance, electricity, hydraulics/pneumatics, welding, machining or fabrication, and includes various diagnostic and repair procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of this curriculum, graduates should be able to individually, or with a team, safely install, inspect, diagnose, repair, and maintain industrial process and support equipment. Students will also be encouraged to develop their skills as life-long learners.

Department(s)
Industrial Systems Technology

Credential
C – Certificate

Program Code
C5024001

Financial Aid Eligible
Yes

Program Contacts

Title
Faculty Mentor

Name
Lee Roach

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Title
College Navigator

Name
Brandon Burnett

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bburnett@isothermal.edu

Minimum Required Credit Hours
16

Degree Requirements

Simple Requirements

Major Requirements

Core Requirement

Type
Completion Requirement

Earn at least 14 credits from the following:

- BPR111 - Print Reading
- HYD110 - Hydraulics/Pneumatics I
- ISC121 - Environmental Health & Safety
- MAC141 - Machining Applications I
- WLD112 - Basic Welding Processes

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Earn at least 2 credits from the following:

- MAC141A - MacHining Applications I Lab

Degree Maps

Degree Map Name
Industrial Systems Technology Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall	6	0

Requirement Select

- MAC141 - Machining Applications I
- **AND** MAC141A - MacHining Applications I Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	5	0

Requirement Select

- WLD112 - Basic Welding Processes
- **AND** ISC121 - Environmental Health & Safety

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	3	0

Requirement Select

- HYD110 - Hydraulics/Pneumatics I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	2	0

Requirement Select

- BPR111 - Print Reading

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C502401P - Industrial Systems Technology Pathway (cert)

Program Overview

Curriulum Description

The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to safely service, maintain, repair, or install equipment. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial systems.

Students will learn multi-craft technical skills in print reading, mechanical systems maintenance, electricity, hydraulics/pneumatics, welding, machining or fabrication, and includes various diagnostic and repair procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of this curriculum, graduates should be able to individually, or with a team, safely install, inspect, diagnose, repair, and maintain industrial process and support equipment. Students will also be encouraged to develop their skills as life-long learners.

Department(s)

Industrial Systems Technology

Credential

C – Certificate

Program Code

C502401P

Financial Aid Eligible

No

Program Contacts

Title

CCP Advising

Email

ccp@isothermal.edu

Minimum Required Credit Hours

16

Degree Requirements

C50420 - Welding Technology (certificate)

Program Overview

Curriulum Description

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Department(s)
Welding Technology

Credential
C – Certificate

Program Code
C50420

Financial Aid Eligible
Yes

Program Contacts

Title
Faculty Mentor

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Title
College Navigator

Name
Brandon Burnett

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Minimum Required Credit Hours
20

Degree Requirements

Simple Requirements

Major Requirements

Core Requirement

Type
Completion Requirement

Earn at least 15 credits from the following:

- WLD110 - Cutting Processes
- WLD115 - SMAW (Stick) Plate
- WLD121 - GMAW (MIG) FCAW/Plate

- WLD131 - GTAW (TIG) Plate

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- BPR111 - Print Reading
- WOL110 - Basic Construction Skills

Degree Maps

Degree Map Name
Welding Technology Certificate
Total Degree Map Credits
20
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	2	0

Requirement Select
- WLD110 - Cutting Processes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	2	0

Requirement Select
- BPR111 - Print Reading

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	5	0

Requirement Select
- WLD115 - SMAW (Stick) Plate

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	4	0

Requirement Select

- WLD121 - GMAW (MIG) FCAW/ Plate

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	7	0

Requirement Select

- WLD131 - GTAW (TIG) Plate
- **AND** WOL110 - Basic Construction Skills

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C5042001 - SMAW Welding (Certificate)

Program Overview

Curriulum Description

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Department(s)

Welding Technology

Credential

C – Certificate

Program Code

C5042001

Financial Aid Eligible

Yes

Program Contacts

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Minimum Required Credit Hours
16

Degree Requirements

Simple Requirements

Major Requirements

Core Requirement

Type
Completion Requirement

Earn at least 7 credits from the following:
- WLD110 - Cutting Processes
- WLD115 - SMAW (Stick) Plate

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 9 credits from the following:
- BPR111 - Print Reading
- WLD116 - SMAW (stick) Plate/Pipe
- WOL110 - Basic Construction Skills

Degree Maps

Degree Map Name
SMAW Welding Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	5	0

Requirement Select
- WLD115 - SMAW (Stick) Plate

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	4	0

Requirement Select

- WLD116 - SMAW (stick) Plate/Pipe

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	2	0

Requirement Select

- WLD110 - Cutting Processes

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	2	0

Requirement Select

- BPR111 - Print Reading

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	3	0

Requirement Select

- WOL110 - Basic Construction Skills

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C5042002 - Advanced Welding (Certificate)

Program Overview

Curriulum Description

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Department(s)
Welding Technology

Credential
C – Certificate

Program Code
C5042002

Financial Aid Eligible
No

Program Contacts

Title
Faculty Mentor

Name
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Title
College Navigator

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Brandon Burnett

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Minimum Required Credit Hours
14

Degree Requirements

Simple Requirements

Major Requirements

Core Requirement

Type
Completion Requirement

Core Requirements

Take 1 of 2 groups

Fulfill ANY of the following requirements:

Group 1

Earn at least 8 credits from the following:

- WLD115 - SMAW (Stick) Plate
- WLD141 - Symbols and Specifications

OR

Group 2

Earn at least 8 credits from the following:

- WLD121 - GMAW (MIG) FCAW/ Plate
- WLD131 - GTAW (TIG) Plate

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 6 credits from the following:

- WLD143 - Welding Metallurgy
- WLD151 - Fabrication I

Degree Maps

Degree Map Name
Advanced Welding Certificate
Total Degree Map Credits
14
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	4	0

Requirement Select

- WLD121 - GMAW (MIG) FCAW/ Plate

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	4	0

Requirement Select

- WLD131 - GTAW (TIG) Plate

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	2	0

Requirement Select
- WLD143 - Welding Metallurgy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	4	0

Requirement Select
- WLD151 - Fabrication I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C5042003 - Advanced Welding & Inspection Processes (Certificate)

Program Overview

Curriulum Description

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Department(s)
Welding Technology

Credential
C – Certificate

Program Code
C5042003

Financial Aid Eligible
No

Program Contacts

Title
Faculty Mentor

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College Navigator

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Minimum Required Credit Hours
15

Degree Requirements

Simple Requirements

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 15 credits from the following:
- WLD132 - GTAW (TIG) Plate/Pipe
- WLD215 - SMAW (stick) Pipe
- WLD231 - GTAW (TIG) Pipe
- WLD261 - Certification Practices
- WLD262 - Inspection & Testing

Degree Maps

Degree Map Name
Advanced Welding & Inspection Processes Certificate
Total Degree Map Credits
15
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	3	0

Requirement Select
- WLD132 - GTAW (TIG) Plate/Pipe

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	3	0

Requirement Select
- WLD231 - GTAW (TIG) Pipe

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	4	0

Requirement Select
- WLD215 - SMAW (stick) Pipe

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	2	0

Requirement Select
- WLD261 - Certification Practices

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	3	0

Requirement Select
- WLD262 - Inspection & Testing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

C5042004 - GMAW Welding Certificate

Program Overview

Curriulum Description

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry. Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application. Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Department(s)

Welding Technology

Credential

Certificate

Program Code

C5042004

Financial Aid Eligible

No

Program Contacts

Title

Faculty Mentor

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Minimum Required Credit Hours

17

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type

Completion Requirement

Major Requirements

Complete ALL of the following Courses:

- BPR111 - Print Reading
- WLD110 - Cutting Processes
- WLD121 - GMAW (MIG) FCAW/Plate
- WLD122 - GMAW (MIG) Plate/Pipe
- WLD141 - Symbols and Specifications
- WOL110 - Basic Construction Skills

Degree Maps

Degree Map Name

GMAW Welding Certificate

Total Degree Map Credits

17

Degree Map Effective Catalog Year

2025 -

Year	Semester	Actual	Progress

Year	Fall Term 1 (8 week)	**Credits** 4	**Credits** 0

Requirement Select
- WLD121 - GMAW (MIG) FCAW/ Plate

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	**Semester**	**Actual Credits**	**Progress Credits**
Year 1	Fall Term 2 (8 week)	3	0

Requirement Select
- WLD122 - GMAW (MIG) Plate/Pipe

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	**Semester**	**Actual Credits**	**Progress Credits**
Year 1	Fall (16 week)	2	0

Requirement Select
- WLD110 - Cutting Processes

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	**Semester**	**Actual Credits**	**Progress Credits**
Year 1	Spring Term 1 (8 week)	6	0

Requirement Select
- WLD141 - Symbols and Specifications
- **AND** WOL110 - Basic Construction Skills

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	**Semester**	**Actual Credits**	**Progress Credits**
Year 1	Spring Term 2 (8 week)	2	0

Requirement Select

- BPR111 - Print Reading

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Understand the disciplines specific and critical for the safe and reasonable practice of welding

C5042005 - GTAW Welding Certificate

Program Overview

Curriulum Description

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry. Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application. Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Department(s)

Welding Technology

Credential

Certificate

Program Code

C5042005

Financial Aid Eligible

No

Program Contacts

Title

Faculty Mentor

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Minimum Required Credit Hours
17

Degree Requirements

Simple Requirements

Major Requirements

Major Requirements

Type
Completion Requirement

Major Requirements

Complete ALL of the following Courses:

- BPR111 - Print Reading
- WLD110 - Cutting Processes
- WLD131 - GTAW (TIG) Plate
- WLD132 - GTAW (TIG) Plate/Pipe
- WLD141 - Symbols and Specifications
- WOL110 - Basic Construction Skills

Degree Maps

Degree Map Name
GTAW Welding Certificate
Total Degree Map Credits
17
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual	Progress
Year 1	Fall Term 1 (8 week)	**Credits** 4	**Credits** 0

Requirement Select

- WLD131 - GTAW (TIG) Plate

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress
Year 1	Fall Term 2 (8 week)	**Credits** 3	**Credits** 0

Requirement Select

- WLD132 - GTAW (TIG) Plate/Pipe

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress
Year 1	Fall (16 week)	**Credits** 2	**Credits** 0

Requirement Select
- WLD110 - Cutting Processes

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	3	0

Requirement Select
- WLD141 - Symbols and Specifications

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	2	0

Requirement Select
- BPR111 - Print Reading

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	3	0

Requirement Select
- WOL110 - Basic Construction Skills

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Understand the disciplines specific and critical for the safe and reasonable practice of welding

C50420P - Welding Technology Pathway (certificate)

Program Overview

Curriulum Description

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Department(s)

Welding Technology

Credential

C – Certificate

Program Code

C50420P

Financial Aid Eligible

No

Program Contacts

Title

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Email
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Minimum Required Credit Hours
17

Degree Requirements

C55120 - Basic Law Enforcement Training (Certificate)

Program Overview

Curriulum Description
Basic Law Enforcement Training (BLET) is designed to give students essential skills required for entry-level employment as law enforcement officers with state, county, or municipal governments, or with private enterprise.

This program utilizes State commission-mandated topics and methods of instruction. General subjects include, but are not limited to, criminal, juvenile, civil, traffic, and alcohol beverage laws; investigative, patrol, custody, and court procedures; emergency responses; and ethics and community relations.

Students must successfully complete and pass all units of study mandated by the North Carolina Criminal Justice Education and Training Standards Commission and the North Carolina Sheriffs' Education and Training Standards Commission to receive a certificate.

Department(s)
Basic Law Enforcement Training

Credential
C – Certificate

Program Code
C55120

Financial Aid Eligible
No

Program Contacts

Title
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Title
College Navigator

Name
Tina Porter

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tporter@isothermal.edu

Minimum Required Credit Hours
20

Degree Requirements

Simple Requirements

Major Requirements

Required Course

Type
Completion Requirement

Earn at least 20 credits from the following:
- LET110 - Basic Law Enforcement Training (BLET)

Degree Maps

Degree Map Name
Basic Law Enforcement Training
Total Degree Map Credits
37
Degree Map Effective Catalog Year
2025 -

Degree Map Narrative
This course is offered in Fall and Spring semesters. Students can begin with either semester.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	37	0

Requirement Select
- LET110 - Basic Law Enforcement Training (BLET)

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	37
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Demonstrate an understanding of North Carolina criminal law, juvenile law, motor vehicle law, controlled substance law, civil law and alcoholic beverages law

Demonstrate an understanding of patrol responsibilities that include: dealing with hazardous material, traffic crashes, in-custody transport, crowd management, radio procedures, rapid deployment, vehicle stops, answering calls for service and anti-terrorism

Describe the fundamental communication aspects of law enforcement that include: dealing with victims, domestic violence response, ethics in policing, interacting with individuals with mental illness, crime prevention, and general communication skills.

Describe the fundamental tasks in the area of investigations that include: fingerprinting and photography, field note-taking and report writing, criminal investigation procedures, interviewing, dealing with controlled substances and human trafficking.

Demonstrate proficiency in the following law enforcement basics: firearms, first aid, driving, physical agility, and subject control arrest techniques.

Describe proper procedures for sheriff specific responsibilities that include: civil process, detention duties and court duties.

C55140 - Cosmetology (Certificate)

Program Overview

Curriulum Description

The Cosmetology curriculum is designed to provide competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the cosmetology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional imaging, hair design, chemical processes, skin care, nail care, multi-cultural practices, business/computer principles, product knowledge, and other selected topics.

Graduates should qualify to sit for the State Board of Cosmetic Arts examination. Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in beauty salons and related businesses.

Department(s)
Cosmetology

Credential
C – Certificate

Program Code
C55140

Financial Aid Eligible
No

Program Contacts

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Minimum Required Credit Hours
34

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 34 credits from the following:

- COS111 - Cosmetology Concepts I
- COS112 - Salon I
- COS113 - Cosmetology Concepts II
- COS114 - Salon II
- COS115 - Cosmetology Concepts III
- COS116 - Salon III

- COS117 - Cosmetology Concepts IV

Degree Maps

Degree Map Name
Cosmetology Certificate
Total Degree Map Credits
34
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	12	0

Requirement Select
- COS111 - Cosmetology Concepts I
- **AND** COS112 - Salon I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	12	0

Requirement Select
- COS113 - Cosmetology Concepts II
- **AND** COS114 - Salon II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	8	0

Requirement Select
- COS115 - Cosmetology Concepts III
- **AND** COS116 - Salon III

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall (16 week)	2	0

Requirement Select

- COS117 - Cosmetology Concepts IV

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Demonstrate an understanding of nail care.

Use appropriate manipulative techniques in skin care.

Learning Outcomes

Learning Outcomes

Execute correct chemical processes

Recognize the differences in multicultural cosmetic practices.

Safely practice sanitation/infection control techniques to include disinfection of any bloodborne pathogens.

Produce professional imaging in hair care.

C55160 - Cosmetology Instructor (Certificate)

Program Overview

Curriulum Description

The Cosmetology Instructor curriculum provides a course of study for learning the skills needed to teach the theory and practice of cosmetology as required by the North Carolina Board of Cosmetic Arts.

Course work includes requirements for becoming an instructor, introduction to teaching theory, methods and aids, practice teaching, and development of evaluation instruments.

Graduates of the program may be employed as cosmetology instructors in public or private education and business.

Department(s)

Cosmetology Instructor (Certificate)

Credential

C – Certificate

Program Code

C55160

Financial Aid Eligible

No

Program Contacts

Title

Faculty Mentor

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Title

College Navigator

Name

Tina Porter

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828-395-1621

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tporter@isothermal.edu

Minimum Required Credit Hours

24

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type

Completion Requirement

Earn at least 24 credits from the following:

- COS271 - Instructor Concepts I
- COS272 - Instructor Practicum I
- COS273 - Instructor Concepts II
- COS274 - Instructor Practicum II

Degree Maps

Degree Map Name
Cosmetology Instructor Certificate
Total Degree Map Credits
24
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	12	0

Requirement Select
- COS271 - Instructor Concepts I
- **AND** COS272 - Instructor Practicum I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	12	0

Requirement Select
- COS273 - Instructor Concepts II
- **AND** COS274 - Instructor Practicum II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Identify theories of education and develop lesson plans for an active learning environment.

Deliver classroom instruction in an active learning environment

Demonstrate supervisory techniques to effectively oversee students in a clinical setting

Assess student performance in a classroom setting to meet the NC Board of Cosmetic Art standards

Keep accurate records of student performances in a clinical setting

C55180 - Criminal Justice Technology (Certificate)

Program Overview

Curriulum Description

The Criminal Justice Technology curriculum is designed to provide knowledge of criminal justice systems and operations. Study will focus on local, state, and federal law enforcement, judicial processes, corrections, and security services. The criminal justice system?s role within society will be explored.

Emphasis is on criminal justice systems, criminology, juvenile justice, criminal and constitutional law, investigative principles, ethics, and community relations. Additional study may include issues and concepts of government, counseling, communications, computers, and technology.

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. Examples include police officer, deputy sheriff, county detention officer, state trooper, intensive probation/parole surveillance officer, correctional officer, and loss prevention specialist.

Department(s)

Criminal Justice Technology

Credential

C – Certificate

Program Code

C55180

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title
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College Navigator

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Tina Porter

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Minimum Required Credit Hours
12

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 12 credits from the following:

- CJC111 - Introduction to Criminal Justice
- CJC112 - Criminology
- CJC132 - Court Procedure & Evidence
- CJC141 - Corrections

Degree Maps

Degree Map Name
Criminal Justice Technology Certificate
Total Degree Map Credits
12
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	3	0

Requirement Select

- CJC111 - Introduction to Criminal Justice

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	3	0

Requirement Select
- CJC141 - Corrections

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	3	0

Requirement Select
- CJC112 - Criminology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	3	0

Requirement Select
- CJC132 - Court Procedure & Evidence

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Identify the components, roles and interworkings of the criminal justice system, including policing, courts, corrections and juvenile justice.

Evaluate emerging criminal justice issues in order to make sound decisions in the field

Comprehend how the various laws work that form the foundation of the criminal justice system.

Identify and apply causes/theories of crime and victimization.

C55180P - Criminal Justice Technology Pathway (cert)

Program Overview

Curriulum Description

The Criminal Justice Technology curriculum is designed to provide knowledge of criminal justice systems and operations. Study will focus on local, state, and federal law enforcement, judicial processes, corrections, and security services. The criminal justice system?s role within society will be explored.

Emphasis is on criminal justice systems, criminology, juvenile justice, criminal and constitutional law, investigative principles, ethics, and community relations. Additional study may include issues and concepts of government, counseling, communications, computers, and technology.

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. Examples include police officer, deputy sheriff, county detention officer, state trooper, intensive probation/parole surveillance officer, correctional officer, and loss prevention specialist.

Department(s)

Criminal Justice Technology

Credential

C – Certificate

Program Code

C55180P

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title
CCP Advisor

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Minimum Required Credit Hours
12

Degree Requirements

Learning Outcomes

Learning Outcomes

Identify the components, roles and interworkings of the criminal justice system, including policing, courts, corrections and juvenile justice.

Evaluate emerging criminal justice issues in order to make sound decisions in the field.

Comprehend how the various laws work that form the foundation of the criminal justice system.

. Identify and apply causes/theories of crime and victimization.

C55220 - Early Childhood Education (Certificate)

Program Overview

Curriulum Description
The Early Childhood Education curriculum prepares individuals to work with children from birth through eight in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Course work includes child growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

Department(s)
Early Childhood Education

Credential
C – Certificate

Program Code
C55220

Program Can be Earned 100% Online
Yes

Financial Aid Eligible
No

Program Contacts

Title
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Title
College Navigator

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Minimum Required Credit Hours
16

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 7 credits from the following:
- EDU119 - Introduction to Early Childhood Education
- EDU131 - Child, Family, and Community

Child Development

Type
Completion Requirement

Earn at least 6 credits from the following:
- EDU144 - Child Development I
- EDU145 - Child Development II

Other Major Requirements

Elective Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- EDU153 - Health, Safety and Nutrition
- EDU151 - Creative Activities
- EDU146 - Child Guidance
- EDU221 - Children With Exceptionalities

Degree Maps

Degree Map Name
Early Childhood Education Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1		

	10	0

Requirement Select

- EDU119 - Introduction to Early Childhood Education
- **AND** EDU131 - Child, Family, and Community
- **AND** EDU144 - Child Development I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- EDU145 - Child Development II
- **AND** EDU151 - Creative Activities

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	Total Major Credits
0	0

Total Minor Credits	Total Elective Credits
0	0

Learning Outcomes

Learning Outcomes

Career Entry Pathway – for those wanting to immediately enter the workforce and do not have plans to pursue a bachelor's degree.

Birth- Kindergarten Licensure Transfer Pathway – for those wanting to transfer to a four-year institution to pursue a bachelor's degree to teach in an NC-Pre-K or Kindergarten classroom

Non-Licensure Transfer Pathway- for those wanting to transfer to a four-year institution but may not want to teach NC-Pre-K or teach in a public school Kindergarten setting. See your college navigator/faculty mentor about the many career choices in this field of early childhood.

C55220P - Early Childhood Education Pathway

Program Overview

Curriulum Description

The Early Childhood Education curriculum prepares individuals to work with children from birth through eight in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Course work includes child growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

Department(s)

Early Childhood Education

Credential

C – Certificate

Program Code

C55220P

Program Can be Earned 100% Online

Yes

Program Contacts

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Title
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Minimum Required Credit Hours

13

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 7 credits from the following:

- EDU119 - Introduction to Early Childhood Education
- EDU131 - Child, Family, and

Community

Child Development

Type
Completion Requirement

Earn at least 6 credits from the following:

- EDU144 - Child Development I
- EDU145 - Child Development II

Other Major Requirements

Elective Requirement

Type
Completion Requirement

Earn at least undefined credits from the following:

No selection provided

Degree Maps

Learning Outcomes

Learning Outcomes

Career Entry Pathway – for those wanting to immediately enter the workforce and do not have plans to pursue a bachelor's degree.

Birth- Kindergarten Licensure Transfer Pathway – for those wanting to transfer to a four-year institution to pursue a bachelor's degree to teach in an NC-Pre-K or Kindergarten classroom

Non-Licensure Transfer Pathway- for those wanting to transfer to a four-year institution but may not want to teach NC-Pre-K or teach in a public school Kindergarten setting. See your college navigator/faculty mentor about the many career choices in this field of early childhood.

C55230 - Esthetics Technology (Certificate)

Program Overview

Curriulum Description

The Esthetics Technology curriculum provides competency-based knowledge, scientific/artistic principles and hands-on fundamentals associated with the art of skin care. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional Esthetics Technology, business/human relations, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and upon passing be licensed and qualify for employment in beauty and cosmetic/skin care salons, as a platform artist, and in related businesses.

Department(s)

Esthetics Technology

Credential

C – Certificate

Program Code

C55230

Financial Aid Eligible

Yes

Program Contacts

Title
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Minimum Required Credit Hours

16

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 16 credits from the following:

- COS119 - Esthetics Concepts I
- COS120 - Esthetics Salon I
- COS125 - Esthetics Concepts II
- COS126 - Esthetics Salon II

Degree Maps

Degree Map Name
Esthetics Technology Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	8	0

Requirement Select
- COS119 - Esthetics Concepts I
- **AND** COS120 - Esthetics Salon I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	8	0

Requirement Select
- COS125 - Esthetics Concepts II
- **AND** COS126 - Esthetics Salon II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Students must use appropriate manipulative techniques in skin care

Students must be able to safely practice sanitation/infection control techniques to include disinfection of any bloodborne pathogens.

C55320 - Career and Technical Education Program Certificate

Program Overview

Curriulum Description

The Occupational Education Associate curriculum is designed for individuals skilled and experienced in a trade or technical specialty who would like to receive an associate degree in preparation for teaching or other purposes.

Course work is designed to supplement previous education, training, and/or experience the individual has already attained.

Graduates of the program may find employment as instructors in the field of occupational education.

Department(s)

Career and Technical Teacher Education, 4a0e48f6-6d0b-4cb9-9d18-511b7d7c122a

Credential

C – Certificate

Program Code

C55320

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

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Minimum Required Credit Hours

12

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 12 credits from the following:

- EDU161 - Introduction to Exceptional Children
- EDU176 - Occupational Analysis and

Course Development
- EDU177 - Instructional Methods
- EDU281 - Instructional Strategies in Reading and Writing

Degree Maps

Degree Map Name
Career and Technical Teacher Education Certificate
Total Degree Map Credits
12
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	3	0

Requirement Select
- EDU176 - Occupational Analysis and Course Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select
- EDU177 - Instructional Methods

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	3	0

Requirement Select
- EDU161 - Introduction to Exceptional Children

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	-	3	0

Requirement Select

- EDU281 - Instructional Strategies in Reading and Writing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Create environments that are healthy, respectful, supportive, and challenging to ALL children

Design and implement developmentally effective curriculum that addresses all domains of learning

Support and empower ALL children, families, and communities through trusting and respectful reciprocal relationships

Use authentic assessment responsibility to make informed decisions to guide ALL children's learning

Communicate effectively using standard written and verbal skills

Utilize technology to enhance learning for ALL children

Serve as a leader, advocate, and professional in the fields of early education

C55400 - Manicuring/Nail Technology (Certificate)

Program Overview

Curriulum Description

The Manicuring/Nail Technology curriculum provides competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the nail technology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional nail technology, business/computer principles, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and upon passing be licensed and qualify for employment in beauty and nail salons, as a platform artist, and in related businesses.

Department(s)

Manicuring/Nail Technology

Credential

C – Certificate

Program Code

C55400

Financial Aid Eligible

No

Program Contacts

Title

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Name

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tporter@isothermal.edu

Minimum Required Credit Hours

12

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type

Completion Requirement

Earn at least 12 credits from the following:

- COS121 - Manicure/Nail Technology I
- COS222 - Manicure/Nail Tech. II

Degree Maps

Degree Map Name
Manicuring/Nail Technology Certificate
Total Degree Map Credits
12
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	6	0

Requirement Select
- COS121 - Manicure/Nail Technology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	6	0

Requirement Select
- COS222 - Manicure/Nail Tech. II

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Demonstrate an understanding of nail care

Safely practice sanitation/infection control techniques to include disinfection of any bloodborne pathogens

C55400P - Manicuring/Nail Technology (Certificate) Pathway

Program Overview

Curriulum Description

The Manicuring/Nail Technology curriculum provides competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the nail technology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional nail technology, business/computer principles, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and upon passing be licensed and qualify for employment in beauty and nail salons, as a platform artist, and in related businesses.

Department(s)

Manicuring/Nail Technology

Credential

C – Certificate

Program Code

C55400P

Financial Aid Eligible

No

Program Contacts

Title

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Email

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Minimum Required Credit Hours

12

Degree Requirements

Learning Outcomes

Learning Outcomes

Demonstrate an understanding of nail care

Safely practice sanitation/infection control techniques to include disinfection of any bloodborne pathogens

C55850 - Early Childhood Administration (certificate)

Program Overview

Curriulum Description

This curriculum prepares individuals pursuing administrating roles in diverse child care settings to effectively work with children, families and teachers. The certificate is composed of learning opportunities in developmental theories, competency and evidence-based professional knowledge, administrative skills and leadership qualities.

Course work includes foundations in early childhood education, physical/nutritional needs of young children, safety issues in the care of young children; communication and leadership skills with teachers, families and children; programming and staffing, budgeting/financial management and marketing, and rules and regulations of early childhood programs.

Employment opportunities include entrepreneurship and/or management of child development and child care programs, preschools, public and private schools, recreational centers, Early Head Start and Head Start programs, and other programs.

Department(s)

Early Childhood Administration

Credential

C – Certificate

Program Code

C55850

Financial Aid Eligible

No

Program Contacts

Title

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Title

College Navigator

Name

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Minimum Required Credit Hours

16

Degree Requirements

Simple Requirements

Major Requirements

Required Courses

Type

Completion Requirement

Earn at least 16 credits from the following:

- EDU119 - Introduction to Early Childhood Education
- EDU131 - Child, Family, and Community
- EDU153 - Health, Safety and Nutrition
- EDU261 - Early Childhood Administration I
- EDU262 - Early Childhood Administration II

Degree Maps

Degree Map Name
Early Childhood Administration Certificate
Total Degree Map Credits
16
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- EDU119 - Introduction to Early Childhood Education
- **AND** EDU131 - Child, Family, and Community

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	3	0

Requirement Select

- EDU153 - Health, Safety and Nutrition

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	3	0

Requirement Select

- EDU261 - Early Childhood Administration I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	3	0

Requirement Select

- EDU262 - Early Childhood Administration II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Non-Licensure Transfer Pathway- for those wanting to transfer to a four-year institution but may not want to teach NC-Pre-K or teach in a public school Kindergarten setting. See your college navigator/faculty mentor about the many career choices in this field of early childhood.

Learning Outcomes

Learning Outcomes

Career Entry Pathway – for those wanting to immediately enter the workforce and do not have plans to pursue a bachelor's degree

Birth- Kindergarten Licensure Transfer Pathway – for those wanting to transfer to a four-year institution to pursue a bachelor's degree to teach in an NC-Pre-K or Kindergarten classroom

D25120 - Business Administration (Diploma)

Program Overview

Curriulum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

Department(s)

Business Administration

Credential

D – Diploma

Program Code

D25120

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title
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Minimum Required Credit Hours
38

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- ENG111 - Writing and Inquiry

GenEd Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ART111 - Art Appreciation
- COM231 - Public Speaking
- ENG112 - Writing and Research in the Disciplines
- HUM110 - Technology and Society
- HUM115 - Critical Thinking
- HUM120 - Cultural Studies
- HUM170 - The Holocaust
- HUM230 - Leadership Development
- MAT110 - Mathematical Measurement and Literacy
- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- PHI240 - Introduction to Ethics

Major Requirements

Required Courses

Type
Completion Requirement

Complete ALL of the following Courses:
- BUS110 - Introduction to Business
- BUS115 - Business Law I
- BUS137 - Principles of Management
- MKT120 - Principles of Marketing

Accounting Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- ACC120 - Principles of Financial Accounting

Computer Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- CIS110 - Introduction to Computers

Economics Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- ECO251 - Principles of Microeconomics

Other Major Requirements

Concentration Requirement

Type
Completion Requirement

Fulfill ALL of the following requirements:

Group 1 of 2

Earn at least 6 credits from the following:
- BUS153 - Human Resource Management
- BUS253 - Leadership and Management Skills

AND

Group 2 of 2

Earn at least 3 credits from the following:
- BUS125 - Personal Finance
- CSC113 - Artificial Intelligence Fundamentals
- MKT223 - Customer Experience
- CTS115 - Information Systems Business Concepts
- CTS130 - Spreadsheet
- WEB140 - Web Development Tools

Other

ACA Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Business Administration Degree
Total Degree Map Credits
38
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** CIS110 - Introduction to Computers
- **AND** BUS110 - Introduction to Business

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select
- ENG111 - Writing and Inquiry
- **AND** BUS115 - Business Law I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	6	0

Requirement Select
- BUS137 - Principles of Management
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select
- MKT120 - Principles of Marketing
- **AND** MKT223 - Customer Experience

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	7	0

Requirement Select
- ACC120 - Principles of Financial Accounting
- **AND** BUS153 - Human Resource Management

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2	6	0

Requirement Select

- ECO251 - Principles of Microeconomics
- **AND** BUS253 - Leadership and Management Skills

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Demonstrate critical thinking, problem-solving, and decision-making skills that optimize business outcomes.

Use technology and software applications effectively for common business operations

Apply effective leadership and collaborative behaviors to meet business goals.

Learning Outcomes

Learning Outcomes

Demonstrate core competencies in accounting, management, marketing, law, and economics.

Utilize appropriate communication skills to effectively gather and share information in a business environment.

Articulate the importance of business ethics and social responsibility to leadership and management decisionmaking.

D25310 - Medical Office Administration (Diploma)

Program Overview

Curriulum Description

The Medical Office Administration curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

Department(s)

Medical Office Administration

Credential

D – Diploma

Program Code

D25310

Financial Aid Eligible

Yes

Program Contacts

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Title
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Minimum Required Credit Hours

37

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ECO252 - Principles of Macroeconomics

Major Requirements

Core Requirement

Type
Completion Requirement

Core Requirements

Earn at least 21 credits from the following:

- CIS110 - Introduction to Computers
- MED121 - Medical Terminology I
- MED122 - Medical Terminology II
- OST136 - Word Processing
- OST148 - Medical Insurance and Billing
- OST149 - Medical Legal Issues
- OST164 - Office Editing

Other Major Requirements

Earn at least 9 credits from the following:

- BUS260 - Business Communication
- BUS270 - Professional Development
- OST243 - Medical Office Simulation

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Medical Office Administration Diploma
Total Degree Map Credits
37
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** MED121 - Medical Terminology I
- **AND** OST148 - Medical Insurance and Billing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	6	0

Requirement Select

- MED122 - Medical Terminology II
- **AND** OST164 - Office Editing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	6	0

Requirement Select

- BUS270 - Professional Development
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	6	0

Requirement Select

- OST243 - Medical Office Simulation
- **AND** BUS260 - Business Communication

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	6	0

Requirement Select

- OST136 - Word Processing
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2 (8 week)	6	0

Requirement Select

- ECO252 - Principles of Macroeconomics
- **AND** OST149 - Medical Legal Issues

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Exhibit proficiency in the use of medical office computer systems, specifically practice management and electronic medical record software

Demonstrate proficiency in office systems management

Learning Outcomes

Learning Outcomes

Effectively communicate and interpret medical terminology in oral and written communications

Understand and illustrate the importance of law and ethics in a healthcare setting

Discuss various reimbursement methodologies and articulate how methods impact the medical practice

D25800 - Accounting and Finance (Diploma)

Program Overview

Curriulum Description

The Accounting and Finance curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting and finance profession. Accountants and finance professionals assemble and analyze, process, and communicate essential information about financial operations.

Course work may include accounting, finance, ethics, business law, computer applications, financial planning, insurance, marketing, real estate, selling, and taxation. Related skills are developed through the study of communications, computer applications, financial analysis, critical thinking skills, and ethics.

Graduates should qualify for entry-level accounting and finance positions in many types of organizations including accounting firms, small businesses, manufacturing firms, banks, hospitals, school systems, and governmental agencies.

Department(s)
Accounting and Finance

Credential
D – Diploma

Program Code
D25800

Program Can be Earned 100% Online
Yes

Financial Aid Eligible
Yes

Program Contacts

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Minimum Required Credit Hours
44

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- ECO252 - Principles of Macroeconomics

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 20 credits from the following:

- ACC120 - Principles of Financial Accounting
- ACC121 - Principles of Managerial Accounting
- BUS115 - Business Law I
- CIS110 - Introduction to Computers
- CTS130 - Spreadsheet
- ECO251 - Principles of Microeconomics

Required Subject Area

Type
Completion Requirement

Earn at least 9 credits from the following:

- ACC129 - Individual Income Taxes
- ACC140 - Payroll Accounting
- ACC220 - Intermediate Accounting I

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 8 credits from the following:

- ACC122 - Principles of Financial Accounting II
- ACC150 - Accounting Software Applications
- ACC227 - Practices in Accounting

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Accounting and Finance Diploma
Total Degree Map Credits
44
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	7	0

Requirement Select

- ACC120 - Principles of Financial Accounting
- **AND** BUS115 - Business Law I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	6	0

Requirement Select

- ACC121 - Principles of Managerial Accounting
- **AND** ACC150 - Accounting Software Applications

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	9	0

Requirement Select

- ACC122 - Principles of Financial Accounting II
- **AND** CTS130 - Spreadsheet
- **AND** ECO251 - Principles of Microeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	5	0

Requirement Select

- ACC140 - Payroll Accounting
- **AND** ECO252 - Principles of Macroeconomics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 2 (8 week)	7	0

Requirement Select

- ACC129 - Individual Income Taxes
- **AND** ACC220 - Intermediate Accounting I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	3	0

Requirement Select

- ACC227 - Practices in Accounting

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Recognize and prepare commonly used financial statements, their components and how information from business transactions flows into these statements (Outcome also addresses: Bookkeeping Certificate, Accounting Diploma, Certificate in General Accounting, Certificate in Computerized Accounting, Payroll, A/R, A/P Clerk Certificate)

Demonstrate progressive learning in the elements of managerial decision making, including budgeting, break-even analysis, continue/discontinue business segment, buy or make, etc. (Outcome also addresses: Bookkeeping Certificate, Accounting Diploma, Certificate in General Accounting, Certificate in Computerized Accounting, Payroll, A/R, A/P Clerk Certificate)

Demonstrate progressive learning of various tax issues and tax forms related to individuals. (Outcome also addresses: Bookkeeping Certificate, Accounting Diploma, Certificate in Computerized Accounting)

Demonstrate knowledge in setting up a computerized set of accounting books for a “for profit” entity. (Outcome also addresses: Accounting Diploma, Certificate in General Accounting, Certificate in Computerized Accounting, Payroll, A/R, A/

Demonstrate knowledge in preparing required documentation, journal entries, adjustments and closings pertaining to the payroll function of a business. (Outcome also addresses Accounting Diploma, Certificate in General Accounting, Payroll, A/R, A/P Clerk Certificate)

D3012001 - Audio/video Production Technology (Diploma)

Program Overview

Curriulum Description

Students enrolled in the Broadcasting Production Technology curriculum will develop professional skills in radio, television, audio, video, and related applications.

Training will emphasize speech, script writing, production planning, editing, and post production. Students will also study the development of the broadcasting industry, sales, ethics, law, marketing, and management. Hands-on training and teamwork approaches are essential to the instructional process.

Upon successful completion, students are prepared to enter broadcasting, production, and related industries in a variety of occupations.

Department(s)

Audio and Video Production Technology

Credential

D – Diploma

Program Code

D3012001

Financial Aid Eligible

Yes

Program Contacts

Title

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Minimum Required Credit Hours
39

Degree Requirements

Simple Requirements

General Education

General Education

Type
Completion Requirement

English Requirement

Earn at least 3 credits from the following:
- ENG111 - Writing and Inquiry

Communications Requirement

Earn at least 3 credits from the following:
- COM231 - Public Speaking

Major Requirements

Major Requirements

Type
Completion Requirement

Required Courses

Earn at least 13 credits from the following:
- BPT110 - Media Evolution
- BPT112 - Media Writing
- BPT121 - Media Speech Techniques
- BPT140 - Introduction to Media Productions

Other Major Requirements

Other Major Requirements

Type
Completion Requirement

Other Major Requirements

Earn at least 16 credits from the following:
- BPT131 - Audio Production I
- BPT135 - Audio Performance I
- BPT220 - Emerging Technologies
- BPT231 - Video Production I
- BPT235 - Video Performance I

Other Major Options

Earn at least 4 credits from the following:
- BPT132 - Audio Production II
- BPT232 - Video Production II

Degree Maps

Degree Map Name
Audio/Video Production Technology Diploma
Total Degree Map Credits
39
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	10	0

Requirement Select
- BPT131 - Audio Production I
- **AND** BPT121 - Media Speech Techniques
- **AND** BPT110 - Media Evolution

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	8	0

Requirement Select
- BPT140 - Introduction to Media Productions
- **AND** BPT135 - Audio Performance I
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	5	0

Requirement Select
- BPT235 - Video Performance I
- **AND** COM231 - Public Speaking

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	8	0

Requirement Select

- BPT220 - Emerging Technologies
- **AND** BPT112 - Media Writing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	8	0

Requirement Select

- BPT231 - Video Production I
- **AND** BPT132 - Audio Production II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

D35130 - Electrical Systems Technology (Diploma)

Program Overview

Curriulum Description

This curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical systems.

Department(s)

Electrical Systems Technology

Credential

D – Diploma

Program Code

D35130

Financial Aid Eligible

Yes

Program Contacts

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Minimum Required Credit Hours
40

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ENG111 - Writing and Inquiry

Mathematics Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- MAT110 - Mathematical Measurement and Literacy

Major Requirements

Required Core

Type
Completion Requirement

Earn at least 23 credits from the following:
- ELC112 - DC/AC Electricity
- ELC113 - Residential Wiring
- ELC114 - Commercial Wiring
- ELC115 - Industrial Wiring
- ELC117 - Motors and Controls
- ELC118 - National Electrical Code

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 11 credits from the following:
- CIS110 - Introduction to Computers
- ELC119 - NEC Calculations
- ELC135 - Electrical Machines
- ELN231 - Industrial Controls

Degree Maps

Degree Map Name
Electrical Systems Technology Diploma
Total Degree Map Credits
40

Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	3	0

Requirement Select
- MAT110 - Mathematical Measurement and Literacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	11	0

Requirement Select
- ELC112 - DC/AC Electricity
- **AND** ELC113 - Residential Wiring
- **AND** ELC118 - National Electrical Code

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	13	0

Requirement Select
- ELC114 - Commercial Wiring
- **AND** ELC117 - Motors and Controls
- **AND** ELC119 - NEC Calculations
- **AND** ELC135 - Electrical Machines

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	13
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	13	0

Requirement Select
- ENG111 - Writing and Inquiry
- **AND** CIS110 - Introduction to Computers
- **AND** ELC115 - Industrial Wiring
- **AND** ELN231 - Industrial Controls

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	13
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Total General	Total Major Credits

Education Credits	0
0	
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

- Explain electrical safety procedures
- Create AC general lighting circuits as defined by the National Electrical Code
- Create simple DC circuits
- Demonstrate the installation of electrical conduits properly
- Connect simple and moderate motor control circuits
- Effectively use the National Electrical Code

D35140 - Building Construction Technology (Diploma)

Program Overview

Curriulum Description

Pathway Description: These curriculums are designed to prepare individuals to apply technical knowledge and skills to the fields of architecture, construction, construction management, and other associated professions.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to design and construction occupations.

Graduates of this pathway should qualify for entry-level jobs in architectural, engineering, construction and trades professions as well as positions in industry and government.

Building Construction Technology: A program that prepares individuals to apply technical knowledge and skills to residential and commercial building construction and remodeling. Includes instruction in construction equipment and safety; site preparation and layout; construction estimating; print reading; building codes; framing; masonry; heating, ventilation, and air conditioning; electrical and mechanical systems; interior and exterior finishing; and plumbing.

Department(s)

Building Construction Technology

Credential

D – Diploma

Program Code

D35140

Financial Aid Eligible

Yes

Program Contacts

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Minimum Required Credit Hours
39

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ENG111 - Writing and Inquiry

Mathematics Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- MAT110 - Mathematical Measurement and Literacy
- MAT121 - Algebra/Trigonometry I

Major Requirements

Required Courses

Type
Completion Requirement

Required Subject Area

Fulfill ANY of the following requirements:

Earn at least 8 credits from the following:
- CAR111 - Carpentry I

OR

Earn at least 8 credits from the following:
- CST111 - Construction I
- CST112 - Construction II

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 20 credits from the following:
- CAR120 - Commercial Carpentry I
- CAR150 - Concrete Construction
- CST131 - OSHA/Safety/Certification
- CST244 - Sustainable Building Design
- PLU115 - Basic Plumbing
- WOL110 - Basic Construction Skills

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Building Construction Technology Diploma
Total Degree Map Credits
40
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	5	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** ARC112 - Construction Materials & Methods

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	3	0

Requirement Select
- MAT110 - Mathematical Measurement and Literacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	8	0

Requirement Select
- CAR111 - Carpentry I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	4	0

Requirement Select
- PLU115 - Basic Plumbing

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	3	0

Requirement Select
- ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	5	0

Requirement Select
- CAR150 - Concrete Construction

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	12	0

Requirement Select

- CST131 - OSHA/Safety/ Certification
- **AND** CST244 - Sustainable Building Design
- **AND** CAR120 - Commercial Carpentry I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Apply the mathematical principles of statics and strength of materials as applied to structural building components

Demonstrate knowledge of machines and tools involved in the construction or repair of houses and buildings

Demonstrate knowledge of workplace safety and ethics.

Apply the practical application of building codes involved in the construction or repair of houses and buildings

Learning Outcomes

Learning Outcomes

Identify materials and methods involved in the construction or repair of houses and buildings

Demonstrate the interpretation of prints and specifications that are associated with construction projects

D40320 - Mechanical Engineering Technology (Diploma)

Program Overview

Curriulum Description

The Mechanical Engineering Technology curriculum prepares graduates for employment as technicians in the diversified mechanical and manufacturing engineering fields. Mechanical Engineering technicians assist in design, development, testing, process design and improvement, and troubleshooting and repair of engineered systems. Emphasis is placed on the integration of theory and hands-on application of engineering principles.

In addition to course work in engineering graphics, engineering fundamentals, materials and manufacturing processes, mathematics, and physics, students will study computer applications, critical thinking, planning and problem solving, and oral and written communications.

Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET.

Department(s)

Mechanical Engineering Technology

Credential

D – Diploma

Program Code

D40320

Financial Aid Eligible

No

Program Contacts

Title

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Title

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Minimum Required Credit Hours

37

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Mathematics Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- MAT121 - Algebra/Trigonometry I

Major Requirements

Required Core

Type
Completion Requirement

Earn at least 15 credits from the following:

- DFT151 - CAD I
- DFT154 - Introduction to Solid Modeling
- HYD110 - Hydraulics/Pneumatics I
- MEC161 - Manufacturing Processes I
- MEC180 - Engineering Materials

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 15 credits from the following:

- CIS110 - Introduction to Computers
- EGR110 - Introduction to Engineering Technology
- ISC121 - Environmental Health & Safety
- ISC132 - Manufacturing Quality Control
- MAC141 - Machining Applications I

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Mechanical Engineering Technology Diploma
Total Degree Map Credits
37
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** MEC161 - Manufacturing Processes I
- **AND** DFT151 - CAD I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	6	0

Requirement Select

- MAT121 - Algebra/Trigonometry I
- **AND** ISC132 - Manufacturing Quality Control

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	5	0

Requirement Select

- EGR110 - Introduction to Engineering Technology
- **AND** HYD110 - Hydraulics/ Pneumatics I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- MEC180 - Engineering Materials
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	3	0

Requirement Select

- DFT154 - Introduction to Solid Modeling

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	3	0

Requirement Select

- CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall	7	0

Requirement Select

- MAC141 - Machining Applications I
- **AND** ISC121 - Environmental Health & Safety

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Understand and mathematically demonstrate basic engineering-related laws and theories (e.g.. Pascal's Law, Equilibrium)

Demonstrate competency with test instruments (e.g.. CMM, Calipers and Micrometers)

Demonstrate competency with manufacturing techniques and processes (e.g.. Material processing, process flow)

Understand and demonstrate basic design concepts (e.g. CNC programming, machine design)

Demonstrate knowledge of workplace safety and ethics

D45240 - Dental Assisting (Diploma)

Program Overview

Curriulum Description

The Dental Assisting curriculum prepares individuals to assist the dentist in the delivery of dental treatment and to function as integral members of the dental team while performing chairside and related office and laboratory procedures.

Course work includes instruction in general studies, biomedical sciences, dental sciences, clinical sciences, and clinical practice. A combination of lecture, laboratory, and clinical experiences provide students with knowledge in infection/hazard control, radiography, dental materials, preventive dentistry, and clinical procedures.

Graduates may be eligible to take the Dental Assisting National Board Examination to become Certified Dental Assistants. As a Dental Assistant II, defined by the Dental Laws of North Carolina, graduates work in dental offices and other related areas.

Department(s)

Dental Assisting

Credential

D – Diploma

Program Code

D45240

Financial Aid Eligible

Yes

Program Contacts

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Minimum Required Credit Hours
47

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ENG111 - Writing and Inquiry

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- PSY150 - General Psychology

Natural Science Requirement

Type
Completion Requirement

Earn at least 4 credits from the following:
- BIO110 - Principles of Biology
- BIO111 - General Biology I
- BIO168 - Anatomy and Physiology I

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 36 credits from the following:
- DEN100 - Basic Orofacial Anatomy
- DEN101 - Preclinical Procedures
- DEN102 - Dental Materials
- DEN103 - Dental Sciences
- DEN104 - Dental Health Education
- DEN105 - Practice Management
- DEN106 - Clinical Practice I
- DEN107 - Clinical Practice II
- DEN111 - Infection/Hazard Control
- DEN112 - Dental Radiography

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Learning Outcomes

Learning Outcomes

The student will execute general chair side assisting skills

The student will integrate infection control techniques.

The student will prepare high-grade, radiographic images used in diagnostics.

The student will perform appropriate life-saving measures for medical emergencies in a dental setting.

D45380 - Social and Human Services (Diploma)

Program Overview

Curriulum Description

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Graduates choosing to continue their education may select from a variety of transfer programs at senior public and private institutions.

Department(s)

Social and Human Services

Credential

D – Diploma

Program Code

D45380

Financial Aid Eligible

Yes

Program Contacts

Title

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Minimum Required Credit Hours
46

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ENG111 - Writing and Inquiry

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- SOC210 - Introduction to Sociology

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 21 credits from the following:
- HSE110 - Introduction to Human Services
- HSE123 - Interviewing Techniques for Human Services
- HSE210 - Diversity, Ethics, and Trends in Human Services
- HSE212 - Group Dynamics
- HSE220 - Case Management
- HSE223 - Counseling Theories & Skills
- HSE225 - Crisis and Intervention Principles

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- SOC213 - Sociology of the Family
- SOC220 - Social Problems

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 9 credits from the following:

- AAI110 - Intro to Animal Assisted Interactions
- AAI120 - Animals in Human Lives
- AAI130 - Animal Handling Skills
- AAI230 - Interaction Methodology & Documentation
- CIS110 - Introduction to Computers
- DDT110 - Intellectual & Developmental Disabilities
- EQU110 - Introduction to Therapeutic Horsemanship
- EQU115 - Principles of Equine Assisted Activities
- EQU125 - Equine Behavior
- EQU210 - Training the Therapeutic Horse
- EQU215 - Equine Assisted Activities-Teaching
- HEA110 - Personal Health/Wellness
- HSE245 - Stress Management
- POL120 - American Government
- PSY281 - Abnormal Psychology
- SAB110 - Intro to Addiction & Recovery Studies
- SAB120 - Intake and Assessment
- SAB135 - Addictive Process
- SAB210 - Addiction & Recovery Counseling
- SAB240 - Diversity, Ethics, & Trends in Addiction & Recovery
- CAS110 - Perspectives on Child Maltreatment and Advocacy

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Social and Human Services Diploma
Total Degree Map Credits
46
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** HSE123 - Interviewing Techniques for Human Services
- **AND** HSE212 - Group Dynamics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- ENG111 - Writing and Inquiry
- **AND** HSE110 - Introduction to Human Services
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select

- HSE210 - Diversity, Ethics, and Trends in Human Services
- **AND** HSE223 - Counseling Theories & Skills
- **AND** DDT110 - Intellectual & Developmental Disabilities

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	6	0

Requirement Select

- HSE225 - Crisis and Intervention Principles
- **AND** SOC213 - Sociology of the Family

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1	9	0

Requirement Select

- PSY241 - Developmental Psychology
- **AND** SAB110 - Intro to Addiction & Recovery Studies
- **AND** SOC210 - Introduction to Sociology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year 2	Fall Term 2	**Credits** 6	**Credits** 0

Requirement Select

- HSE220 - Case Management
- **AND** CAS110 - Perspectives on Child Maltreatment and Advocacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits 0	**Total Major Credits** 0
Total Minor Credits 0	**Total Elective Credits** 0

Learning Outcomes

Learning Outcomes

Interview clients and document appropriately.

Communicate effectively with clients, service providers, and other professionals.

Recognize crises and initiate crisis intervention model.

Make appropriate referrals to community agencies

Model professional behaviors, team work, and ethics in a variety of settings.

Reason through a variety of human services issues

D45660 - Practical Nursing (Diploma)

Program Overview

Curriulum Description

The Practical Nursing curriculum prepares individuals with the knowledge and skills to provide nursing care to children and adults.

Students will participate in assessment, planning, implementing, and evaluating nursing care.

Graduates are eligible to apply to take the National Council Licensure Examination (NCLEX-PN) which is required for practice as a Licensed Practical Nurse. Employment opportunities include hospitals, rehabilitation/long term care/home health facilities, clinics, and physicians' offices.

Department(s)

Practical Nursing

Credential

D – Diploma

Program Code

D45660

Financial Aid Eligible

Yes

Program Contacts

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Minimum Required Credit Hours

45

Degree Requirements

Simple Requirements

General Education

GenEd Requirement

Type

Completion Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- PSY150 - General Psychology

Major Requirements

Required Coureses

Type

Completion Requirement

Earn at least 30 credits from the following:

- NUR101 - Practical Nursing I
- NUR102 - Practical Nursing II
- NUR103 - Practical Nursing III

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 8 credits from the following:

- BIO168 - Anatomy and Physiology I
- BIO169 - Anatomy and Physiology II

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Practical Nursing Diploma
Total Degree Map Credits
45
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	1	0

Requirement Select

- ACA122 - Transfer & Career Success

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	1
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	4	0

Requirement Select

- BIO168 - Anatomy and Physiology I

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	11	0

Requirement Select
- NUR101 - Practical Nursing I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	11
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	4	0

Requirement Select
- BIO169 - Anatomy and Physiology II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	3	0

Requirement Select
- ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	10	0

Requirement Select
- NUR102 - Practical Nursing II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	10
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	12	0

Requirement Select

- NUR103 - Practical Nursing III
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Participate in evaluating the concepts of the holistic individual and client response in the promotion of health, wellness, illness, quality of life, and the achievement of potential.

Practice professional nursing behaviors, within the ethical-legal practice boundaries of the LPN, incorporating personal responsibility and accountability for continued competence

Participate in providing evidence-based nursing care, from an established plan of care, based on biophysical, psychosocial and cultural needs of clients in various stages of growth and development while assisting them to attain their highest level of wellness

Reinforce and /or implement the teaching plan developed and delegated by the registered nurse to promote the health of individuals, incorporating teaching and learning principles

Participate in the nursing process to provide individualized, safe and effective nursing care in a structured setting under supervision

Demonstrate caring behaviors in implementing culturally-competent, client-centered nursing care to diverse clients across the lifespan.

Participate in Quality Improvement (QI) by identifying hazards and errors and by suggesting, to the RN, changes to improve the client care process.

Utilize informatics to access, manage, and communicate client information.

Participate in collaboration with the interdisciplinary healthcare team, as assigned by the registered nurse, to support positive individual and organizational outcomes in a safe and cost effective manner.

D50210 - Computer-Integrated Machining (diploma)

Program Overview

Curriulum Description

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

Department(s)

Computer Integrated Machining

Credential

D – Diploma

Program Code

D50210

Financial Aid Eligible

Yes

Program Contacts

Title

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Minimum Required Credit Hours

46

Degree Requirements

Simple Requirements

General Education

English Requirement

Type

Completion Requirement

Earn at least 3 credits from the following:

- ENG111 - Writing and Inquiry

Mathematics Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- MAT110 - Mathematical Measurement and Literacy
- MAT121 - Algebra/Trigonometry I

Major Requirements

Core Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:

- BPR111 - Print Reading
- MAC121 - Introduction to CNC
- MAC141 - Machining Applications I
- MAC142 - Machining Applications II

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 23 credits from the following:

- MAC122 - CNC Turning
- MAC124 - CNC Milling
- MAC141A - MacHining Applications I Lab
- MAC142A - Machining Applications II Lab
- MAC222 - Advanced CNC Turning
- MAC224 - Advanced CNC Milling
- MAC233 - Appl in CNC Machining
- MEC110 - Introduction to CAD/CAM
- MEC231 - Computer-Aided Manufacturing I

Technical Elective

Type
Completion Requirement

Earn at least 5 credits from the following:

- AUT211 - Automotive Machining
- CIS110 - Introduction to Computers
- DFT152 - CAD II
- DFT154 - Introduction to Solid Modeling
- ISC121 - Environmental Health & Safety
- MAC234 - Advanced Multi-Axis Machining
- MAC234A - Advanced Multi-Axis MacHining Lab
- MEC232 - Computer-Aided Manufacturing II

Degree Maps

Degree Map Name
Computer Integrated Machining Diploma
Total Degree Map Credits
47
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	5	0

Requirement Select

- BPR111 - Print Reading
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	5	0

Requirement Select

- MAC121 - Introduction to CNC
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	6	0

Requirement Select

- MAC141 - Machining Applications I
- **AND** MAC141A - MacHining Applications I Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	5	0

Requirement Select

- MEC110 - Introduction to CAD/CAM
- **AND** MAT110 - Mathematical Measurement and Literacy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	5	0

Requirement Select

- MAC124 - CNC Milling
- **AND** DFT152 - CAD II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring (16 week)	6	0

Requirement Select

- MAC142 - Machining Applications II
- **AND** MAC142A - Machining Applications II Lab

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	2	0

Requirement Select

- MAC122 - CNC Turning

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	2	0

Requirement Select

- MAC222 - Advanced CNC Turning

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	2	0

Requirement Select
- MAC224 - Advanced CNC Milling

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1 (8 week)	3	0

Requirement Select
- MEC231 - Computer-Aided Manufacturing I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	3
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring (16 week)	6	0

Requirement Select
- MAC233 - Appl in CNC Machining

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Evaluate a basic blueprint using specified NIMS tolerances and industry standards

Identify work orders and write out or modify as needed correctly, calculate information needed to machine parts to correct specs.

Develop a CNC programmed part without the assistance of CAD

Construct input milling by properties, and simulate cutting operation of 3-D surface and solid modeling features by computer-assisted methods

Evaluate machining process during cutting operation and adjust initial variable settings to achieve maximum results

Create a multiple part mechanism which requires both CNC milling and turning to manufacture a capstone

D50420 - Welding Technology (Diploma)

Program Overview

Curriulum Description

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

Graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Department(s)

Welding Technology

Credential

D – Diploma

Program Code

D50420

Financial Aid Eligible

Yes

Program Contacts

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Minimum Required Credit Hours
47

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ENG111 - Writing and Inquiry

Mathematics Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- MAT110 - Mathematical Measurement and Literacy
- MAT121 - Algebra/Trigonometry I

Major Requirements

Core Requirement

Type
Completion Requirement

Earn at least 18 credits from the following:
- WLD110 - Cutting Processes
- WLD115 - SMAW (Stick) Plate
- WLD121 - GMAW (MIG) FCAW/Plate
- WLD131 - GTAW (TIG) Plate
- WLD141 - Symbols and Specifications

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 23 credits from the following:
- BPR111 - Print Reading
- WLD116 - SMAW (stick) Plate/Pipe
- WLD122 - GMAW (MIG) Plate/Pipe
- WLD132 - GTAW (TIG) Plate/Pipe
- WLD143 - Welding Metallurgy
- WLD215 - SMAW (stick) Pipe
- WLD261 - Certification Practices
- WOL110 - Basic Construction Skills

Degree Maps

Degree Map Name
Welding Technology Diploma
Total Degree Map Credits
47
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	7	0

Requirement Select
- ENG111 - Writing and Inquiry
- **AND** WLD121 - GMAW (MIG) FCAW/Plate

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	6	0

Requirement Select
- MAT110 - Mathematical Measurement and Literacy
- **AND** WLD122 - GMAW (MIG) Plate/Pipe

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall (16 week)	2	0

Requirement Select
- WLD110 - Cutting Processes

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	5	0

Requirement Select

- WLD115 - SMAW (Stick) Plate

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	4	0

Requirement Select

- WLD116 - SMAW (stick) Plate/Pipe

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Summer	5	0

Requirement Select

- WLD141 - Symbols and Specifications
- **AND** WLD143 - Welding Metallurgy

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	7	0

Requirement Select

- WLD131 - GTAW (TIG) Plate
- **AND** WOL110 - Basic Construction Skills

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	5	0

Requirement Select

- BPR111 - Print Reading
- **AND** WLD132 - GTAW (TIG) Plate/ Pipe

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	5
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 1 (8 week)	4	0

Requirement Select

- WLD215 - SMAW (stick) Pipe

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	4
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	2	0

Requirement Select

- WLD261 - Certification Practices

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Understand the disciplines specific and critical for the safe and reasonable practice of welding

Demonstrate the abilities, attributes and characteristics desired by the construction industry, including effective relationship skills and effective self-presentation to demonstrate employability, and key workplace skills such as critical thinking and problem solving

Possess the intellectual abilities, the exercise of good judgment, and the prompt completion of all responsibilities required for the certification process associated with the AWS certification

Develop mature, sensitive, effective, and professional relationships with other students, faculty members, department administrators, industry partners, and potential employers

Conditioned, physically and mentally ability to tolerate taxing workloads and display flexibility to learning and functioning under stress when faced with uncertainties inherent to the welding occupation

Demonstrate knowledge of the machines, tools and equipment with understanding of their design, use, maintenance, and safety procedures for the protection of the people and property

Understand the materials, production processes, quality control, and cost for maximizing the effective manufacturing goods and the welding process

Differentiate coupon performance task monitoring and assessing of daily performance of oneself and others, organizing, seeking instructional cretic

Observe, recreate, imitate the task with reliable expertise with high quality and minimal instruction, and demonstrate to other learners and instructors

D55180 - Criminal Justice Technology (Diploma)

Program Overview

Curriulum Description

The Criminal Justice Technology curriculum is designed to provide knowledge of criminal justice systems and operations. Study will focus on local, state, and federal law enforcement, judicial processes, corrections, and security services. The criminal justice system?s role within society will be explored.

Emphasis is on criminal justice systems, criminology, juvenile justice, criminal and constitutional law, investigative principles, ethics, and community relations. Additional study may include issues and concepts of government, counseling, communications, computers, and technology.

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. Examples include police officer, deputy sheriff, county detention officer, state trooper, intensive probation/parole surveillance officer, correctional officer, and loss prevention specialist.

Department(s)

Criminal Justice Technology

Credential

D – Diploma

Program Code

D55180

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

Name
Elizabeth Adams

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828-395-4378

Email
meadams@isothermal.edu

Title
College Navigator

Name
Tina Porter

Phone
828-395-1621

Email
tporter@isothermal.edu

Minimum Required Credit Hours
43

Degree Requirements

Simple Requirements

General Education

GenEd Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ENG111 - Writing and Inquiry

Social Science Requirement

Type
Completion Requirement

Fulfill ALL of the following requirements:

Earn at least 3 credits from the following:
- PSY150 - General Psychology

AND

Earn at least 3 credits from the following:
- POL120 - American Government
- SOC210 - Introduction to Sociology

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 18 credits from the following:
- CJC111 - Introduction to Criminal Justice
- CJC112 - Criminology
- CJC113 - Juvenile Justice
- CJC131 - Criminal Law
- CJC212 - Ethics & Community Relations
- CJC231 - Constitutional Law

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 15 credits from the following:
- CJC121 - Law Enforcement Operations
- CJC132 - Court Procedure & Evidence
- CJC141 - Corrections
- CJC160 - Terrorism: Underlying Issues
- CJC222 - Criminalistics

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Criminal Justice Technology Diploma
Total Degree Map Credits
43
Degree Map Effective Catalog Year
2025 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1 (8 week)	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** CJC111 - Introduction to Criminal Justice
- **AND** CJC113 - Juvenile Justice

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2 (8 week)	9	0

Requirement Select
- ENG111 - Writing and Inquiry
- **AND** CJC121 - Law Enforcement Operations
- **AND** CJC141 - Corrections

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1 (8 week)	9	0

Requirement Select

- CJC112 - Criminology
- **AND** CJC131 - Criminal Law
- **AND** CJC212 - Ethics & Community Relations

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2 (8 week)	6	0

Requirement Select

- CJC132 - Court Procedure & Evidence
- **AND** CJC160 - Terrorism: Underlying Issues

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Fall Term 1 (8 week)	6	0

Requirement Select

- SOC210 - Introduction to Sociology
- **AND** CJC231 - Constitutional Law

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 2	Spring Term 2 (8 week)	6	0

Requirement Select

- PSY150 - General Psychology
- **AND** CJC222 - Criminalistics

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	6
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Identify the components, roles and interworkings of the criminal justice system, including policing, courts, corrections and juvenile justice

Evaluate emerging criminal justice issues in order to make sound decisions in the field

Comprehend how the various laws work that form the foundation of the criminal justice system.

Identify and apply causes/theories of crime and victimization.

D55220 - Early Childhood Education (Diploma)

Program Overview

Curriulum Description

The Early Childhood Education curriculum prepares individuals to work with children from birth through eight in diverse learning environments. Students will combine learned theories with practice in actual settings with young children under the supervision of qualified teachers.

Course work includes child growth and development; physical/nutritional needs of children; care and guidance of children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of young children.

Graduates are prepared to plan and implement developmentally appropriate programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Head Start Programs, and school-age programs.

Department(s)

Early Childhood Education

Credential

D – Diploma

Program Code

D55220

Financial Aid Eligible

Yes

Program Contacts

Title
Faculty Mentor

Name
Alice McCluney

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828-395-1444

Email
amccluney@isothermal.edu

Title
College Navigator

Name
Tina Porter

Phone
828-395-1621

Email
tporter@isothermal.edu

Minimum Required Credit Hours
37

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- ENG111 - Writing and Inquiry

Social Science Requirement

Type
Completion Requirement

Earn at least 3 credits from the following:
- PSY150 - General Psychology

Major Requirements

Required Courses

Type
Completion Requirement

Earn at least 22 credits from the following:
- EDU119 - Introduction to Early Childhood Education
- EDU131 - Child, Family, and Community
- EDU146 - Child Guidance
- EDU151 - Creative Activities
- EDU153 - Health, Safety and Nutrition
- EDU221 - Children With Exceptionalities
- EDU234 - Infants, Toddlers, and Twos

Child Development Requirement

Type
Completion Requirement

Earn at least 6 credits from the following:
- EDU144 - Child Development I
- EDU145 - Child Development II

Other Major Requirements

Elective Requirement

Type
Completion Requirement

Earn at least 2 credits from the following:

- EDU184 - Early Childhood Introductory Practicum

Other

ACA Requirement

Type
Completion Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Early Childhood Education Diploma
Total Degree Map Credits
37
Degree Map Effective Catalog Year
2026 -

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	8	0

Requirement Select

- ACA122 - Transfer & Career Success
- **AND** EDU119 - Introduction to Early Childhood Education
- **AND** EDU144 - Child Development I

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	8
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select

- EDU151 - Creative Activities
- **AND** EDU153 - Health, Safety and Nutrition
- **AND** EDU145 - Child Development II

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual	Progress

Year	Semester	Credits	Credits
Year 1	Spring	2	0

Requirement Select
- EDU184 - Early Childhood Introductory Practicum

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	2
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select
- EDU146 - Child Guidance
- **AND** EDU221 - Children With Exceptionalities
- **AND** ENG111 - Writing and Inquiry

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	9	0

Requirement Select
- EDU234 - Infants, Toddlers, and Twos
- **AND** PSY150 - General Psychology
- **AND** EDU131 - Child, Family, and Community

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits**
0	0
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Career Entry Pathway – for those wanting to immediately enter the workforce and do not have plans to pursue a bachelor's degree.

Birth- Kindergarten Licensure Transfer Pathway – for those wanting to transfer to a four-year institution to pursue a bachelor's degree to teach in an NC-Pre-K or Kindergarten classroom

Non-Licensure Transfer Pathway- for those wanting to transfer to a four-year institution but may not want to teach NC-Pre-K or teach in a public school Kindergarten setting. See your college navigator/faculty mentor about the many career choices in this field of early childhood

D55320 - Career and Technical Education Program (Diploma)

Program Overview

Curriulum Description

The Occupational Education Associate curriculum is designed for individuals skilled and experienced in a trade or technical specialty who would like to receive an associate degree in preparation for teaching or other purposes.

Course work is designed to supplement previous education, training, and/or experience the individual has already attained.

Graduates of the program may find employment as instructors in the field of occupational education.

Department(s)

Career and Technical Teacher Education, 4a0e48f6-6d0b-4cb9-9d18-511b7d7c122a

Credential

D – Diploma

Program Code

D55320

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

Yes

Program Contacts

Title

Faculty Mentor

Name
Alice McCluney

Phone
828-395-1444

Email
amccluney@isothermal.edu

Title
College Navigator

Name
Tina Porter

Phone
828-395-1621

Email
tporter@isothermal.edu

Minimum Required Credit Hours
37

Degree Requirements

Simple Requirements

General Education

English Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- ENG111 - Writing and Inquiry

Social Science Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- PSY150 - General Psychology

Major Requirements

Required Coureses

Type
Completion Requirement

Complete ALL of the following Courses:
- EDU176 - Occupational Analysis and Course Development
- EDU177 - Instructional Methods
- EDU281 - Instructional Strategies in Reading and Writing
- EDU161 - Introduction to Exceptional Children

Other Major Requirements

Other Major Requirement

Type
Completion Requirement

Earn at least 12 credits from the following:
- CIS110 - Introduction to Computers
- EDU163 - Classroom Management and Instruction
- EDU179 - Vocational Student Organizations
- EDU216 - Foundations of Education
- EDU271 - Educational Technology
- ISC121 - Environmental Health & Safety

Additional Comments:
6 hours of specialty required

Other

ACA Requirement

Type
Completion Requirement

Complete ALL of the following Courses:
- ACA122 - Transfer & Career Success

Degree Maps

Degree Map Name
Career and Technical Education Program Diploma
Total Degree Map Credits
37
Degree Map Effective Catalog Year
2026 -

Degree Map Narrative
Students will receive credit in their final term for work experience.

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 1	7	0

Requirement Select
- ACA122 - Transfer & Career Success
- **AND** ENG111 - Writing and Inquiry
- **AND** EDU176 - Occupational Analysis and Course Development

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	7
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Fall Term 2	9	0

Requirement Select
- EDU177 - Instructional Methods
- **AND** EDU163 - Classroom Management and Instruction

Course Requirement Group	
Course Requirement Group (Free Text)	-
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 1	9	0

Requirement Select

- EDU161 - Introduction to Exceptional Children
- **AND** EDU216 - Foundations of Education
- **AND** CIS110 - Introduction to Computers

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	9
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Year	Semester	Actual Credits	Progress Credits
Year 1	Spring Term 2	12	0

Requirement Select

- EDU281 - Instructional Strategies in Reading and Writing
- **AND** EDU271 - Educational Technology
- **AND** PSY150 - General Psychology

Course Requirement Group	
Course Requirement-Group (Free Text)	
Minimum Grade	-
Area	-
Actual Credits	12
Progress Credits	-
Contact Hours	-
Clinical	-
Criticality	No

Total General Education Credits	**Total Major Credits** 0
0	
Total Minor Credits	**Total Elective Credits**
0	0

Learning Outcomes

Learning Outcomes

Create environments that are healthy, respectful, supportive, and challenging to ALL children

Design and implement developmentally effective curriculum that addresses all domains of learning

Support and empower ALL children, families, and communities through trusting and respectful reciprocal relationships

Use authentic assessment responsibility to make informed decisions to guide ALL children's learning

Communicate effectively using standard written and verbal skills

Utilize technology to enhance learning for ALL children

Serve as a leader, advocate, and professional in the fields of early education

P1012C - College Transfer Pathway: Associate in Arts

Program Overview

Curriulum Description
The CCP College Transfer Pathway Leading to the Associate in Arts is designed for high school juniors and seniors who wish to begin study toward the Associate in Arts degree and a baccalaureate degree in a non-STEM major.

Department(s)
CCP Pathway: Associate in Arts

Program Code
P1012C

Program Can be Earned 100% Online
Yes

Financial Aid Eligible
No

Program Contacts

Title
CCP

Email
ccp@isothermal.edu

Minimum Required Credit Hours
32

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities/Fine Arts

Minimum 2 subjects

Earn at least 9 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- COM231 - Public Speaking
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics

Social/Behavioral Sciences

Minimum 2 subjects

Earn at least 9 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology

- SOC210 - Introduction to Sociology

Math Requirement

Earn at least 3 credits from the following:

- MAT143 - Quantitative Literacy
- MAT152 - Statistical Methods I
- MAT171 - Precalculus Algebra

Natural Sciences Requirement

Take 1 of 5 groups

Fulfill ANY of the following requirements:

Earn at least 4 credits from the following:

- AST151 - General Astronomy I
- AST151A - General Astronomy I Lab

OR

Earn at least 4 credits from the following:

- BIO110 - Principles of Biology

OR

Earn at least 4 credits from the following:

- BIO111 - General Biology I

OR

Earn at least 4 credits from the following:

- CHM151 - General Chemistry I

OR

Earn at least 4 credits from the following:

- PHY110 - Conceptual Physics
- PHY110A - Conceptual Physics Lab

Other

Other Required Hours

Type

Completion Requirement

Required Courses

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

Degree Maps

P1032C - College Transfer Pathway - Associate Degree Nursing

Program Overview

Curriulum Description

The Career and College Promise (CCP) ADN Pathway is designed for high school juniors and seniors who wish to begin their educational studies toward the Associate in Nursing degree and a Baccalaureate degree in Nursing. The Pathway is based on Block 1 of the Uniform Articulation Agreement between the University of North Carolina's Registered Nurse to Bachelor of Science in Nursing programs and the North Carolina Community College Associate Degree Nursing Programs which was approved by the State Board of Community Colleges and the UNC Board of Governors in February 2015.

A student who completes an Associate in Applied Science (AAS) in Nursing, which includes the courses listed below, with a GPA of at least 2.0 and a grade of C or better and completes the courses in Blocks 2-3 of the Uniform Articulation Agreement between the University of North Carolina's Registered Nurse to Bachelor of Science in Nursing programs and the North Carolina Community College Associate Degree Nursing Programs with a GPA of at least 2.0 and a grade of C or better, and who holds a current unrestricted license as a Registered Nurse in North Carolina will have fulfilled the UNC institutions lower-division general education requirements as well as nursing program entry requirements. However, because nursing program admissions are competitive, no student is guaranteed admission to the program of his or her choice.

Department(s)

CCP Pathway: Associate in Nursing

Program Code

P1032C

Program Can be Earned 100% Online

Yes

Financial Aid Eligible

No

Program Contacts

Title

CCP Advisor

Email

ccp@isothermal.edu

Minimum Required Credit Hours

24

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type

Completion Requirement

English Requirement

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities/Fine Arts Requirement

Earn at least 3 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- HUM115 - Critical Thinking
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics

Social/Behavioral Sciences

Earn at least 6 credits from the following:

- PSY150 - General Psychology
- PSY241 - Developmental Psychology

Natural Sciences Requirement

Earn at least 8 credits from the following:

- BIO168 - Anatomy and Physiology I
- BIO169 - Anatomy and Physiology II

Other

Other Required Hours

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

P1042C - College Transfer Pathway - Associate in Science

Program Overview

Curriulum Description
The CCP College Transfer Pathway Leading to the Associate in Science is designed for high school juniors and seniors who wish to begin study toward the Associate in Science degreee and a baccalaureate degree in a STEM or technical major.

Department(s)
CCP Pathway: Associate in Science

Program Code
P1042C

Program Can be Earned 100% Online
Yes

Financial Aid Eligible
No

Program Contacts

Title
CCP Advisor

Email
ccp@isothermal.edu

Minimum Required Credit Hours
35

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirements

Earn at least 6 credits from the following:

- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities/Fine Arts Requirement

Minimum 2 subjects

Earn at least 6 credits from the following:

- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- COM231 - Public Speaking
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics

Social/Behavioral Sciences

Minimum 2 subjects

Earn at least 6 credits from the following:

- ECO251 - Principles of Microeconomics
- ECO252 - Principles of Macroeconomics
- HIS111 - World Civilizations I
- HIS112 - World Civilizations II
- HIS131 - American History I
- HIS132 - American History II
- POL120 - American Government
- PSY150 - General Psychology
- SOC210 - Introduction to Sociology

Math Requirement

Earn at least 8 credits from the following:

- MAT171 - Precalculus Algebra
- MAT172 - Precalculus Trigonometry
- MAT263 - Brief Calculus
- MAT271 - Calculus I
- MAT272 - Calculus II

Natural Science Requirement

Take 1 of 5 groups

Fulfill ANY of the following requirements:

Earn at least 8 credits from the following:

- AST151 - General Astronomy I
- AST151A - General Astronomy I Lab
- BIO110 - Principles of Biology

OR

Earn at least 8 credits from the following:

- BIO111 - General Biology I
- BIO112 - General Biology II

OR

Earn at least 8 credits from the following:

- CHM151 - General Chemistry I

- CHM152 - General Chemistry II

OR

Earn at least 8 credits from the following:

- PHY151 - College Physics I
- PHY152 - College Physics II

OR

Earn at least 8 credits from the following:

- PHY251 - General Physics I
- PHY252 - General Physics II

Other

Oher Required Hours

Type
Completion Requirement

Required Courses

Earn at least 1 credits from the following:

- ACA122 - Transfer & Career Success

P1052C - College Transfer Pathway - Associate in Engineering

Program Overview

Curriulum Description

The College Transfer Pathway (CCP) leading to the Associate in Engineering is designed for high school juniors and seniors who wish to begin study toward the Associate in Engineering degree and a baccalaureate degree in a STEM or technical major.

Department(s)

CCP Pathway: Associate in Engineering

Program Code

P1052C

Financial Aid Eligible

No

Program Contacts

Title
CCP Advisor

Email
ccp@isothermal.edu

Minimum Required Credit Hours

34

Degree Requirements

Simple Requirements

General Education

General Education Requirements

Type
Completion Requirement

English Requirements

Earn at least 6 credits from the following:
- ENG111 - Writing and Inquiry
- ENG112 - Writing and Research in the Disciplines

Humanities/Fine Arts Requirement

Earn at least 3 credits from the following:
- ART111 - Art Appreciation
- ART114 - Art History Survey I
- ART115 - Art History Survey II
- COM231 - Public Speaking
- ENG231 - American Literature I
- ENG232 - American Literature II
- ENG241 - British Literature I
- ENG242 - British Literature II
- MUS110 - Music Appreciation
- MUS112 - Introduction to Jazz
- PHI215 - Philosophical Issues
- PHI240 - Introduction to Ethics

Social/Behavioral Sciences

Earn at least 3 credits from the following:
- ECO251 - Principles of Microeconomics

Mathematics Requirement

Earn at least 8 credits from the following:
- MAT271 - Calculus I
- MAT272 - Calculus II

Natural Sciences Requirement

Earn at least 8 credits from the following:
- CHM151 - General Chemistry I
- PHY251 - General Physics I
- PHY252 - General Physics II

Other

Other requirements

Type
Completion Requirement

ACA Requirement

Earn at least 1 credits from the following:
- ACA122 - Transfer & Career Success

Engineering Requirement

Earn at least 5 credits from the following:
- DFT170 - Engineering Graphics
- EGR150 - Introduction to Engineering

T90990 - Special Credit

Program Overview

Department(s)
341580f9-1365-43c5-bff7-c79210aa285b

Program Code
T90990

All Courses

AAI110 - Intro to Animal Assisted Interactions

Overview

Subject code	Course Number	Department(s)
AAI	110	Social and Human Services

Description

This course introduces the field of human-animal interactions, its history, agencies, roles and careers. Topics include personal/professional characteristics, animal behavioral profiles, diversity of populations served, disciplines in the field, ethical standards and major theoretical and intervention approaches. Upon completion, students should be able to clearly articulate the knowledge, skills and roles of the animal interaction specialist.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

AAI120 - Animals in Human Lives

Overview

Subject code	Course Number	Department(s)
AAI	120	Social and Human Services

Description

This course covers the roles, uses and status of animals across the human lifespan and the regulation of animals in social spaces. Emphasis is placed on animals in the social world and individual lives, including animal and human development, animal cruelty and human violence, and cultural perspectives. Upon completion, students should be able to identify and explain how people are influenced by animals in social and personal contexts.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

AAI130 - Animal Handling Skills

Overview

Subject code	Course Number	Department(s)
AAI	130	Social and Human Services

Description

This course covers the capacities of different species for work with diverse goals and populations in animal interactions and introduces components critical to animals' well-being. Emphasis is placed on expanding critical thinking, and competence in animal handling and management skills necessary for development as a well-rounded, responsible animal handler. Upon completion, students should be able to identify interaction risks, animal handling and training practices, and assess animal interaction effectiveness.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

AAI210 - Interaction Methodology

Overview

Subject code	Course Number	Department(s)
AAI	210	Social and Human Services

Description

This course provides a comprehensive exposure to techniques, approaches, and experiential methodology for implementing animal interactions in all aspects of human services and education. Emphasis is placed on applying the knowledge and animal skills for creating safe and effective, goal oriented interactions within various human service and educational environments. Upon completion, students should be able to demonstrate the knowledge, judgment, safety and methodology skills appropriate for an entry-level position utilizing animal interactions.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AAI220 - Interaction Documentation

Overview

Subject code	Course Number	Department(s)
AAI	220	Social and Human Services

Description

This course covers the knowledge and skills necessary for program evaluation and outcome measurement processes used in animal interaction services. Topics include the effect of animal interactions on participant outcomes, assessment of outcome measures, and evaluation of overall program goals and objectives. Upon completion, students should be able to utilize basic concepts of outcome based evaluation processes to objectively evaluate animal interaction service within supervised settings.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AAI230 - Interaction Methodology & Documentation

Overview

Subject code	Course Number	Department(s)
AAI	230	Social and Human Services

Description

This course provides techniques, approaches, and experiential methodology for implementing and documenting animal assisted interactions. Emphasis is placed on applying the knowledge and animal handling skills to create safe, ethical, goal-oriented interactions within various environments with proper documentation. Upon completion, students should be able to design and document an animal assisted interaction visit for a specific population.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

ACA115 - Success & Study Skills

Overview

Subject code	Course Number	Department(s)
ACA	115	Developmental Education

Description

This course provides an orientation to the campus resources and academic skills necessary to achieve educational objectives. Emphasis is placed on an exploration of facilities and services, study skills, library skills, self-assessment, wellness, goal-setting, and critical thinking. Upon completion, students should be able to manage their learning experiences to successfully meet educational goals.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
1

ACA122 - Transfer & Career Success

Overview

Subject code	Course Number	Department(s)
ACA	122	Developmental Education

Description

This course introduces students to career and transfer opportunities while building skills for academic success, career exploration, and transfer preparation, ensuring readiness for success in community college and beyond. Topics include transfer agreements with public and independent institutions, programs and processes that facilitate transfer, and transfer tools and resources; career topics include career exploration and information and skills such as resume writing, portfolio development, and professional communication. Upon completion, students will be able to identify the community college program that matches their transfer and career goals, navigate transfer policies and processes, use Transfer Guides, develop an academic plan for future success, and identify professional application materials.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
1

ACC120 - Principles of Financial Accounting

Overview

Subject code
ACC

Course Number
120

Department(s)
Accounting and Finance

Description
This course introduces business decision-making using accounting information systems. Emphasis is placed on analyzing, summarizing, reporting, and interpreting financial information. Upon completion, students should be able to prepare financial statements, understand the role of financial information in decision-making and address ethical considerations.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
4

ACC121 - Principles of Managerial Accounting

Overview

Subject code
ACC

Course Number
121

Department(s)
Accounting and Finance

Description
This course includes a greater emphasis on managerial and cost accounting skills. Emphasis is placed on managerial accounting concepts for external and internal analysis, reporting and decision-making. Upon completion, students should be able to analyze and interpret transactions relating to managerial concepts including product-costing systems.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
4

ACC122 - Principles of Financial Accounting II

Overview

Subject code	Course Number	Department(s)
ACC	122	Accounting and Finance

Description

This course provides additional instruction in the financial accounting concepts and procedures introduced in ACC 120. Emphasis is placed on the analysis of specific balance sheet accounts, with in-depth instruction of the accounting principles applied to these accounts. Upon completion, students should be able to analyze data, prepare journal entries, and prepare reports in compliance with generally accepted accounting principles.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ACC129 - Individual Income Taxes

Overview

Subject code	Course Number	Department(s)
ACC	129	Accounting and Finance

Description

This course introduces the relevant laws governing individual income taxation. Topics include tax law, electronic research and methodologies, and the use of technology for preparation of individual income tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various individual tax forms.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ACC140 - Payroll Accounting

Overview

Subject code	Course Number	Department(s)
ACC	140	Accounting and Finance

Description

This course covers federal and state laws pertaining to wages, payroll taxes, payroll tax forms, and journal and general ledger transactions. Emphasis is placed on computing wages; calculating social security, income, and unemployment taxes; preparing appropriate payroll tax forms; and journalizing/posting transactions. Upon completion, students should be able to analyze data, make appropriate computations, complete forms, and prepare accounting entries using appropriate technology.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

ACC150 - Accounting Software Applications

Overview

Subject code	Course Number	Department(s)
ACC	150	Accounting and Finance

Description

This course introduces microcomputer applications related to accounting systems. Topics include general ledger, accounts receivable, accounts payable, inventory, payroll, and correcting, adjusting, and closing entries. Upon completion, students should be able to use a computer accounting package to accurately solve accounting problems.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

ACC180 - Practices in Bookkeeping

Overview

Subject code	Course Number	Department(s)
ACC	180	Accounting and Finance

Description

This course provides advanced instruction in bookkeeping and record-keeping functions. Emphasis is placed on mastering adjusting entries, correction of errors, depreciation, payroll, and inventory. Upon completion, students should be able to conduct all key bookkeeping functions for small businesses.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ACC220 - Intermediate Accounting I

Overview

Subject code	Course Number	Department(s)
ACC	220	Accounting and Finance

Description

This course is a continuation of the study of accounting principles with in-depth coverage of theoretical concepts and financial statements. Topics include generally accepted accounting principles and extensive analysis of balance sheet components. Upon completion, students should be able to demonstrate competence in the conceptual framework underlying financial accounting, including the application of financial standards.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ACC227 - Practices in Accounting

Overview

Subject code	Course Number	Department(s)
ACC	227	Accounting and Finance

Description

This course provides an advanced in-depth study of selected topics in accounting using case studies and individual and group problem solving. Topics include cash flow, financial statement analysis, individual and group problem solving, practical approaches to dealing with clients, ethics, and critical thinking. Upon completion, students should be able to demonstrate competent analytical skills and effective communication of their analysis in written and/or oral presentations.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

AGR110 - Agricultural Economics

Overview

Subject code	Course Number	Department(s)
AGR	110	Agribusiness Technology

Description

This course provides an introduction to basic economic principles in agriculture. Topics include supply and demand, the role of agriculture in the economy, economic systems, and micro- and macroeconomics. Upon completion, students should be able to explain economic systems, interpret supply and demand curves, and complete cost and revenue production schedules.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AGR111 - Basic Farm Maintenance

Overview

Subject code	Course Number	Department(s)
AGR	111	Agribusiness Technology

Description

This course covers fundamentals of maintenance and repair of farm facilities and equipment. Topics include safe use of hand tools and farm machinery, carpentry, concrete, painting, wiring, welding, plumbing, and calculating costs and materials needed. Upon completion, students should be able to answer theoretical questions on topics covered and assist with maintenance and repair of farm facilities and equipment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

AGR139 - Introduction to Sustainable Agriculture

Overview

Subject code	Course Number	Department(s)
AGR	139	Agribusiness Technology

Description

This course will provide students with a clear perspective on the principles, history and practices of sustainable agriculture in our local and global communities. Students will be introduced to the economic, environmental and social impacts of agriculture. Upon completion, students will be able to identify the principles of sustainable agriculture as they relate to basic production practices.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AGR140 - Agricultural Chemicals

Overview

Subject code	Course Number	Department(s)
AGR	140	Agribusiness Technology

Description

This course covers all aspects of agricultural chemicals. Topics include safety, environmental effects, federal and state laws, pesticide classification, sprayer calibration, and licensing. Upon completion, students should be able to calibrate a sprayer, give proper pesticide recommendations (using integrated pest management), and demonstrate safe handling of pesticides.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

AGR145 - Introduction to Small Fruits

Overview

Subject code	Course Number	Department(s)
AGR	145	Agribusiness Technology

Description

This course introduces the history, principles, and practices governing the establishment and management of small fruit plantings. Topics include physiology, plant growth and development; cultivars; pruning and training systems; irrigation; harvesting, flower and plant classification; growing areas including latitude, climate, soils, and nutrient management; common diseases and pests. Upon completion, students should be able to explain the history of small fruit production; describe cultivation and marketing of small fruits; recognize the vine, flower, and berry structure of small fruits; identify environment, nutrition, and fertilization needs of various small fruits according to sustainable practices; recognize common diseases and pest management.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

AGR170 - Soil Science

Overview

Subject code	Course Number	Department(s)
AGR	170	Agribusiness Technology

Description

This course covers the basic principles of soil management and fertilization. Topics include liming, fertilization, soil management, biological properties of soil (including beneficial microorganisms), sustainable land care practices and the impact on soils, and plant nutrients. Upon completion, students should be able to analyze, evaluate, and properly amend soils/media according to sustainable practices.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AGR210 - Agricultural Accounting

Overview

Subject code	Course Number	Department(s)
AGR	210	Agribusiness Technology

Description

This course covers the basic principles and practices of accounting and bookkeeping as they relate to the agricultural industry. Topics include general accounting terminology, data entry practices, and analysis of records for tax purposes. Upon completion, students should be able to complete a basic record book and analyze records for tax purposes.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AGR212 - Farm Business Management

Overview

Subject code	Course Number	Department(s)
AGR	212	Agribusiness Technology

Description

This course introduces budgeting, farm analysis, production costs, business organizations, and general management principles. Topics include enterprise budgets, partial budgets, whole farm budgets, income analysis, and business organizations. Upon completion, students should be able to prepare and analyze a farm budget.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AGR213 - Agricultural Law & Finance

Overview

Subject code	Course Number	Department(s)
AGR	213	Agribusiness Technology

Description

This course covers the basic laws and financial aspects affecting agriculture. Topics include environmental laws, labor laws, contractual business operations, assets, liabilities, net worth, and funding sources. Upon completion, students should be able to complete loan application procedures and explain basic laws affecting the agricultural industry.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AGR214 - Agricultural Marketing

Overview

Subject code	Course Number	Department(s)
AGR	214	Agribusiness Technology

Description

This course covers basic marketing principles for agricultural products. Topics include buying, selling, processing, standardizing, grading, storing, and marketing of agricultural commodities. Upon completion, students should be able to construct a marketing plan for an agricultural product.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AGR261 - Agronomy

Overview

Subject code	Course Number	Department(s)
AGR	261	Agribusiness Technology

Description

This course provides a basic introduction to field and forage crops. Topics include forage crops, field crops, seed selection, fertility management, field preparation, harvesting, and storage. Upon completion, students should be able to demonstrate a knowledge of forage and field crop production practices.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AGR262 - Weed ID & Control

Overview

Subject code	Course Number	Department(s)
AGR	262	Agribusiness Technology

Description

This course introduces the annual and perennial weeds of economic importance in the southeast. Topics include the life cycles, flowering habits, identification, and control of various weeds in the Southeast. Upon completion, students should be able to identify selected weeds and recommend methods of control.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

AHR110 - Introduction to Refrigeration

Overview

Subject code	Course Number	Department(s)
AHR	110	Industrial Systems Technology

Description

This course introduces the basic refrigeration process used in mechanical refrigeration and air conditioning systems. Topics include terminology, safety, and identification and function of components; refrigeration cycle; and tools and instrumentation used in mechanical refrigeration systems. Upon completion, students should be able to identify refrigeration systems and components, explain the refrigeration process, and use the tools and instrumentation of the trade.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
5

AHR120 - HVACR Maintenance

Overview

Subject code	Course Number	Department(s)
AHR	120	Industrial Systems Technology

Description

This course introduces the basic principles of industrial air conditioning and heating systems. Emphasis is placed on preventive maintenance procedures for heating and cooling equipment and related components. Upon completion, students should be able to perform routine preventive maintenance tasks, maintain records, and assist in routine equipment repairs.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

AHR130 - HVAC Controls

Overview

Subject code	Course Number	Department(s)
AHR	130	Industrial Systems Technology

Description

This course covers the types of controls found in residential and commercial comfort systems. Topics include electrical and electronic controls, control schematics and diagrams, test instruments, and analysis and troubleshooting of electrical systems. Upon completion, students should be able to diagnose and repair common residential and commercial comfort system controls.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AHR151 - HVAC Duct Systems I

Overview

Subject code	Course Number	Department(s)
AHR	151	Building Construction Technology

Description

This course introduces the techniques used to lay out and fabricate duct work commonly found in HVAC systems. Emphasis is placed on the skills required to fabricate duct work. Upon completion, students should be able to lay out and fabricate simple duct work.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

AHR210 - Residential Building Code

Overview

Subject code	Course Number	Department(s)
AHR	210	Building Construction Technology

Description

This course covers the residential building codes that are applicable to the design and installation of HVAC systems. Topics include current residential codes as applied to HVAC design, service, and installation. Upon completion, students should be able to demonstrate the correct usage of residential building codes that apply to specific areas of the HVAC trade.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

AHR211 - Residential System Design

Overview

Subject code	Course Number	Department(s)
AHR	211	Building Construction Technology

Description

This course introduces the principles and concepts of conventional residential heating and cooling system design. Emphasis is placed on using tables, worksheets, and/or appropriate software to calculate a residential load based on Air Conditioning Contractors of America (ACCA) standards. Upon completion of the course students should be able to calculate a heating and cooling residential load.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

ALT120 - Renewable Energy Technologies

Overview

Subject code	Course Number	Department(s)
ALT	120	Electrical Systems Technology

Description

This course provides an introduction to multiple technologies that allow for the production and conservation of energy from renewable sources. Topics include hydo-electric, wind power, passive and active solar energy, tidal energy, appropriate building techniques, and energy conservation methods. Upon completion, students should be able to demonstrate an understanding of renewable energy production and its impact on humans and their environment.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ALT250 - Thermal Systems

Overview

Subject code	Course Number	Department(s)
ALT	250	Electrical Systems Technology

Description

This course introduces concepts, tools, techniques, and materials used to convert thermal energy into a viable, renewable energy resource. Topics include forced convection, heat flow and exchange, radiation, the various elements of thermal system design, regulations, and system installation and maintenance. Upon completion, students should be able to demonstrate an understanding of geothermal and solar thermal systems and corresponding regulations.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ANS110 - Animal Science

Overview

Subject code	Course Number	Department(s)
ANS	110	Agribusiness Technology

Description

This course introduces the livestock industry. Topics include nutrition, reproduction, production practices, diseases, meat processing, sustainable livestock production, and marketing. Upon completion, students should be able to demonstrate a basic understanding of livestock production practices and the economic impact of livestock locally, regionally, state-wide, and internationally.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ANS111 - Sustainable Livestock Management

Overview

Subject code	Course Number	Department(s)
ANS	111	Agribusiness Technology

Description

This course covers the integration of livestock as part of a sustainable farming system, with emphasis on small-scale production for niche markets and pasture. The course will cover appropriate breed selection, nutrition and living requirements for livestock such as goats, hogs, sheep, poultry, and bees. Upon completion, students will recognize appropriate breeds for their farm needs and demonstrate knowledge of small scale livestock production.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ANS115 - Animal Feeds and Nutrition

Overview

Subject code	Course Number	Department(s)
ANS	115	Agribusiness Technology

Description

This course covers the fundamentals of animal feeding and nutrition. Topics include nutrient requirements, digestion, feed formulation, and classification. Upon completion, students should be able to demonstrate knowledge of nutritional requirements and feeding practices of farm animals.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ANS116 - Introduction to the Equine Industry

Overview

Subject code	Course Number	Department(s)
ANS	116	Agribusiness Technology

Description

This course provides an introduction to the equine industry. Topics include history, breeds, disciplines, economic impact, and career opportunities within the industry. Upon completion, students should be able to demonstrate a basic understanding of the equine industry and as it relates to animal science, production, and management

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ANS180 - Equine Production

Overview

Subject code	Course Number	Department(s)
ANS	180	Agribusiness Technology

Description

This course provides an introduction to the production of horses. Topics include anatomy and physiology, reproduction, genetics, selection, and basic management practices. Upon completion, students should be able to demonstrate a basic understanding of the production and management of horses.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ANS210 - Livestock Production Issues

Overview

Subject code	Course Number	Department(s)
ANS	210	Agribusiness Technology

Description

This course explores areas associated with livestock production. Emphasis is placed on monthly work schedules; qualities of a successful manager; and recruiting, motivating, and retaining employees. Upon completion, students should be able to prepare a livestock management program, write a resume, complete an interview, and identify ways to improve community relations.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ANS212 - Livestock Records & Analysis

Overview

Subject code	Course Number	Department(s)
ANS	212	Agribusiness Technology

Description

This course introduces records and record keeping systems utilized in the livestock industry. Topics include heritability, cattle performance data, swine performance data, and poultry production. Upon completion, students should be able to select animals based on performance records, evaluate performance of operations, and complete production records.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

ANT210 - General Anthropology

Overview

Subject code	Course Number	Department(s)
ANT	210	Associate in Arts

Description

This course introduces the physical, archaeological, linguistic, and ethnological fields of anthropology. Topics include human origins, genetic variations, archaeology, linguistics, primatology, and contemporary cultures. Upon completion, students should be able to demonstrate an understanding of the four major fields of anthropology.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ANT220 - Cultural Anthropology

Overview

Subject code	Course Number	Department(s)
ANT	220	Associate in Arts

Description

This course introduces the nature of human culture. Emphasis is placed on cultural theory, methods of fieldwork, and cross-cultural comparisons in the areas of ethnology, language, and the cultural past. Upon completion, students should be able to demonstrate an understanding of basic cultural processes and how cultural data are collected and analyzed.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ARC111 - Introduction to Architectural Technology

Overview

Subject code	Course Number	Department(s)
ARC	111	Building Construction Technology

Description

This course introduces basic architectural drafting techniques, lettering, use of architectural and engineer scales, and sketching. Topics include orthographic, axonometric, and oblique drawing techniques using architectural plans, elevations, sections, and details; reprographic techniques; and other related topics. Upon completion, students should be able to prepare and print scaled drawings within minimum architectural standards.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

ARC112 - Construction Materials & Methods

Overview

Subject code	Course Number	Department(s)
ARC	112	Building Construction Technology

Description

This course introduces construction materials and methodologies. Topics include construction terminology, traditional and alternative materials and their properties, manufacturing processes, construction techniques, and other related topics. Upon completion, students should be able to detail construction assemblies and identify construction materials and properties.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

ARC114 - Architectural CAD

Overview

Subject code	Course Number	Department(s)
ARC	114	Building Construction Technology

Description

This course introduces basic architectural CAD techniques. Topics include basic commands and system hardware and software. Upon completion, students should be able to prepare and plot architectural drawings to scale within accepted architectural standards.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

ARC131 - Building Codes

Overview

Subject code	Course Number	Department(s)
ARC	131	Building Construction Technology

Description

This course covers the methods of researching building codes for specific projects. Topics include residential and commercial building codes. Upon completion, students should be able to determine the code constraints governing construction projects.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ART111 - Art Appreciation

Overview

Subject code	Course Number	Department(s)
ART	111	Associate in Arts

Description

This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ART114 - Art History Survey I

Overview

Subject code	Course Number	Department(s)
ART	114	Associate in Arts

Description

This course covers the development of art forms from ancient times to the Renaissance. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ART115 - Art History Survey II

Overview

Subject code	Course Number	Department(s)
ART	115	Associate in Arts

Description

This course covers the development of art forms from the Renaissance to the present. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ART118 - Art by Women

Overview

Subject code	Course Number	Department(s)
ART	118	Associate in Arts

Description

This course provides an analytical study of the works of representative female artists. Emphasis is placed on the historical and cultural contexts, themes, and aesthetic features of individual works. Upon completion, students should be able to interpret, analyze, and discuss selected works.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ART121 - Two-Dimensional Design

Overview

Subject code	Course Number	Department(s)
ART	121	Associate in Arts

Description

This course introduces the elements and principles of design as applied to two-dimensional art. Emphasis is placed on the structural elements, the principles of visual organization, and the theories of color mixing and interaction. Upon completion, students should be able to understand and use critical and analytical approaches as they apply to two-dimensional visual art.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ART131 - Drawing I

Overview

Subject code	Course Number	Department(s)
ART	131	Associate in Arts

Description

This course introduces the language of drawing and the use of various drawing materials. Emphasis is placed on drawing techniques, media, and graphic principles. Upon completion, students should be able to demonstrate competence in the use of graphic form and various drawing processes.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ART132 - Drawing II

Overview

Subject code	Course Number	Department(s)
ART	132	Associate in Arts

Description

This course continues instruction in the language of drawing and the use of various materials. Emphasis is placed on experimentation in the use of drawing techniques, media, and graphic materials. Upon completion, students should be able to demonstrate increased competence in the expressive use of graphic form and techniques.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ART140 - Basic Painting

Overview

Subject code	Course Number	Department(s)
ART	140	Associate in Arts

Description

This course introduces the mechanics of painting. Emphasis is placed on the exploration of painting media through fundamental techniques. Upon completion, students should be able to demonstrate a basic understanding and application of painting.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
2

ART240 - Painting I

Overview

Subject code
ART

Course Number
240

Department(s)
Associate in Arts

Description
This course introduces the language of painting and the use of various painting materials. Emphasis is placed on the understanding and use of various painting techniques, media, and color principles. Upon completion, students should be able to demonstrate competence in the use of creative processes directed toward the development of expressive form.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

ART241 - Painting II

Overview

Subject code
ART

Course Number
241

Department(s)
Associate in Arts

Description
This course provides a continuing investigation of the materials, processes, and techniques of painting. Emphasis is placed on the exploration of expressive content using a variety of creative processes. Upon completion, students should be able to demonstrate competence in the expanded use of form and variety.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

AST111 - Descriptive Astronomy

Overview

Subject code	Course Number	Department(s)
AST	111	Associate in Science

Description

This course introduces an overall view of modern astronomy. Topics include an overview of the solar system, the sun, stars, galaxies, and the larger universe. Upon completion, students should be able to demonstrate an understanding of the universe around them.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AST111A - Descriptive Astronomy Lab

Overview

Subject code	Course Number	Department(s)
AST	111A	Associate in Science

Description

The course is a laboratory to accompany AST 111. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 111 and which provide practical experience. Upon completion, students should be able to demonstrate an understanding of the universe around them.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

AST151 - General Astronomy I

Overview

Subject code	Course Number	Department(s)
AST	151	Associate in Science

Description

This course introduces the science of modern astronomy with a concentration on the solar system. Emphasis is placed on the history and physics of astronomy and an introduction to the solar system, including the planets, comets, and meteors. Upon completion, students should be able to demonstrate a general understanding of the solar system.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

AST151A - General Astronomy I Lab

Overview

Subject code	Course Number	Department(s)
AST	151A	Associate in Science

Description

The course is a laboratory to accompany AST 151. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 151 and which provide practical experience. Upon completion, students should be able to demonstrate a general understanding of the solar system.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
1

AST152 - General Astronomy II

Overview

Subject code	Course Number	Department(s)
AST	152	Associate in Science

Description

This course is a continuation of AST 151 with primary emphasis beyond the solar system. Topics include the sun, stars, galaxies, and the larger universe, including cosmology. Upon completion, students should be able to demonstrate a working knowledge of astronomy.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

AST152A - General Astronomy II Lab

Overview

Subject code	Course Number	Department(s)
AST	152A	Associate in Science

Description

The course is a laboratory to accompany AST 152. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 152 and which provide practical experience. Upon completion, students should be able to demonstrate a working knowledge of astronomy.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
1

ATR112 - Introduction to Automation

Overview

Subject code	Course Number	Department(s)
ATR	112	Mechatronics Engineering Technology

Description

This course introduces the basic principles of automated systems and describes the tasks that technicians perform on the job. Topics include the history, development, and current applications of robots and automated systems including their configuration, operation, components, and controls. Upon completion, students should be able to understand the basic concepts of automation and robotic systems.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

ATR115 - Introduction to Mechatronics

Overview

Subject code	Course Number	Department(s)
ATR	115	Electronics Engineering Technology

Description

This course introduces the synergistic application of mechanical, electrical, electronic, and computer engineering technologies that are used for the purpose of control and maintenance of high-tech devices and equipment. Topics include automation, advanced manufacturing, sensors, actuators, process control, circuits, robotics, electromechanical equipment, hydraulics, pneumatics, electrical drives, motors, and programmable logic controllers. Upon completion, students should be able to demonstrate an understanding of the function of the components of a mechatronic system, their controlling interactions, and the overall operation of the mechatronic control system.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ATR211 - Robot Programming

Overview

Subject code	Course Number	Department(s)
ATR	211	Electronics Engineering Technology

Description

This course provides the operational characteristics of robots and programming in their respective languages. Topics include robot programming, teach pendants, PLC integration, operator interfaces, the interaction of external sensors, machine vision, network systems, and other related devices. Upon completion, students should be able to program and demonstrate the operation of various robots.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

AUT211 - Automotive Machining

Overview

Subject code	Course Number	Department(s)
AUT	211	Computer Integrated Machining

Description

This course covers engine machining processes for remanufacturing automotive engines. Emphasis is placed on cylinder head service, machining block surfaces, reconditioning connecting rod assemblies, flywheel, camshaft, and crankshaft refurbishing, and precision measurement. Upon completion, students should be able to explain the operation and proper use of automotive machining equipment.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
4

BIO110 - Principles of Biology

Overview

Subject code	Course Number	Department(s)
BIO	110	Associate in Science

Description

This course provides a survey of fundamental biological principles for non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, evolution, ecology, diversity, and other related topics. Upon completion, students should be able to demonstrate increased knowledge and better understanding of biology as it applies to everyday life.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement, this course satisfies the general education Natural Science requirement for the AA and AFA degrees. It does not satisfy the general education Natural Science requirement for the AS degree.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

BIO111 - General Biology I

Overview

Subject code	Course Number	Department(s)
BIO	111	Associate in Science

Description

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, molecular and cellular biology, metabolism and energy transformation, genetics, evolution, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

BIO112 - General Biology II

Overview

Subject code	Course Number	Department(s)
BIO	112	Associate in Science

Description

This course is a continuation of BIO 111. Emphasis is placed on organisms, evolution, biodiversity, plant and animal systems, ecology, and other related topics. Upon completion, students should be able to demonstrate comprehension of life at the organismal and ecological levels.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

BIO140 - Environmental Biology

Overview

Subject code	Course Number	Department(s)
BIO	140	Associate in Science

Description

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

BIO140A - Environmental Biology Lab

Overview

Subject code	Course Number	Department(s)
BIO	140A	Associate in Science

Description

This course provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical understanding of environmental interrelationships and of contemporary environmental issues.

CAA statement

This course is intended for all Associate degree programs. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
1

BIO155 - Nutrition

Overview

Subject code	Course Number	Department(s)
BIO	155	Associate in Science

Description

This course covers the biochemistry of foods and nutrients with consideration of the physiological effects of specialized diets for specific biological needs. Topics include cultural, religious, and economic factors that influence a person's acceptance of food, as well as nutrient requirements of the various life stages. Upon completion, students should be able to identify the functions and sources of nutrients, the mechanisms of digestion, and the nutritional requirements of all age groups.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

BIO163 - Basic Anatomy & Physiology

Overview

Subject code
BIO

Course Number
163

Department(s)
Associate in Science

Description
This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships.

CAA statement
This course is designed for certificate and diploma programs. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
5

BIO168 - Anatomy and Physiology I

Overview

Subject code
BIO

Course Number
168

Department(s)
Associate in Science

Description
This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous systems and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
4

BIO169 - Anatomy and Physiology II

Overview

Subject code	Course Number	Department(s)
BIO	169	Associate in Science

Description

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

BIO175 - General Microbiology

Overview

Subject code	Course Number	Department(s)
BIO	175	Associate in Science

Description

This course covers principles of microbiology with emphasis on microorganisms and human disease. Topics include an overview of microbiology and aspects of medical microbiology, identification and control of pathogens, disease transmission, host resistance, and immunity. Upon completion, students should be able to demonstrate knowledge of microorganisms and the disease process as well as aseptic and sterile techniques.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

BIO275 - Microbiology

Overview

Subject code	Course Number	Department(s)
BIO	275	Associate in Science

Description

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications. Upon completion, students should be able to demonstrate knowledge and skills including microscopy, aseptic technique, staining, culture methods, and identification of microorganisms.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

BPR111 - Print Reading

Overview

Subject code	Course Number	Department(s)
BPR	111	Computer Integrated Machining

Description

This course introduces the basic principles of print reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic prints and visualize the features of a part or system.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
2

BPR121 - Blueprint Reading-Mechanical

Overview

Subject code
BPR

Course Number
121

Description
This course covers the interpretation of intermediate blueprints. Topics include tolerancing, auxiliary views, sectional views, and assembly drawings. Upon completion, students should be able to read and interpret a mechanical working drawing.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

BPR130 - Print Reading-Construction

Overview

Subject code
BPR

Course Number
130

Department(s)
Building Construction Technology

Description
This course covers the interpretation of prints and specifications that are associated with design and construction projects. Topics include interpretation of documents for foundations, floor plans, elevations, and related topics. Upon completion, students should be able to read and interpret construction prints and documents.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

BPT110 - Media Evolution

Overview

Subject code	Course Number	Department(s)
BPT	110	Audio and Video Production Technology

Description

This course introduces media in the United States. Emphasis is placed on industry development, media ethics, governmental oversight, technological advancements, revenue models, and audience shifts and trends. Upon completion, students should be able to demonstrate knowledge of regulations, organizational structures, revenue sources, historical development, and on-going operation in media related industries.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

BPT111 - Broadcast Law & Ethics

Overview

Subject code	Course Number	Department(s)
BPT	111	Audio and Video Production Technology

Description

This course covers judicial, legislative, and administrative policies pertinent to the ethical and legal operation of broadcast and other electronic media organizations. Emphasis is placed on legal and ethical issues including First Amendment protection, FCC regulations, copyright, and libel laws. Upon completion, students should be able to demonstrate an understanding of the historical significance and modern-day application of important broadcast laws and policies.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

BPT112 - Media Writing

Overview

Subject code	Course Number	Department(s)
BPT	112	Audio and Video Production Technology

Description

This course introduces the principles for writing for media. Emphasis is placed on understanding target audiences and demographics, while shaping the message to meet the specificity of the content platform. Upon completion, students should be able to understand and write copy and scripts according to standard industry formats.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

BPT113 - Broadcast Sales

Overview

Subject code	Course Number	Department(s)
BPT	113	Audio and Video Production Technology

Description

This course covers sales principles applicable to radio, television, cable, and other electronic media. Emphasis is placed on prospecting and servicing accounts, developing clients, and preparing sales presentations. Upon completion, students should be able to create a sales presentation based upon standard ratings reports, prospect for new customers, and understand account management.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

BPT115 - Public Relations

Overview

Subject code	Course Number	Department(s)
BPT	115	Audio and Video Production Technology

Description

This course introduces the art and science of analyzing trends, predicting their consequences, counseling organizations, and implementing actions to serve organizational and public interests. Emphasis is placed on identifying public needs, conducting and analyzing research, writing and communicating information, maintaining media relations, and creating an organizational crisis plan. Upon completion, students should be able to summarize public relations history, conduct research, develop press releases, create printed material, and formulate a crisis plan.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

BPT121 - Media Speech Techniques

Overview

Subject code	Course Number	Department(s)
BPT	121	Audio and Video Production Technology

Description

This course covers basic preparation and speaking performance. Emphasis is placed on proper articulation, pronunciation, rate of delivery, pitch, breathing techniques, inflection, projection, and phrasing for media talent. Upon completion, students should be able demonstrate effective communication to a target audience.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

BPT131 - Audio Production I

Overview

Subject code	Course Number	Department(s)
BPT	131	Audio and Video Production Technology

Description

This course covers the creation, development, production, and presentation of audio programming elements for various formats and platforms. Emphasis is placed on the operation of professional audio equipment, microphones, and recording devices. Upon completion, students should be able to correctly operate audio recording and playback equipment and demonstrate an understanding of the basic components of sound.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

BPT132 - Audio Production II

Overview

Subject code	Course Number	Department(s)
BPT	132	Audio and Video Production Technology

Description

This course is designed to advance the skills learned in BPT 131 Audio Production I and covers creation, development, production, and presentation of audio programming elements for various formats and platforms. Emphasis is placed on the operation of professional audio equipment, microphones, and recording devices. Upon completion, students should be able to correctly operate audio recording and playback equipment and demonstrate an understanding of the basic components of sound.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

BPT135 - Audio Performance I

Overview

Subject code	Course Number	Department(s)
BPT	135	Audio and Video Production Technology

Description

This course the basics for audio performance and audio content creation. Emphasis is placed on diction, scripting, recording, ad-libbing, microphone techniques, articulation, pronunciation, and presentation of audio broadcasting elements for broadcast and/or other electronic media applications. Upon completion, students should be able to demonstrate competency in audio communications.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

BPT136 - Audio Performance II

Overview

Subject code	Course Number	Department(s)
BPT	136	Audio and Video Production Technology

Description

This course is designed to advance skills learned in BPT 135 Audio Performance I and focuses on audio performance and audio content creation. Emphasis is placed on diction, scripting, recording, ad-libbing, microphone techniques, articulation, pronunciation, and presentation of audio broadcasting elements for broadcast and/or other electronic media applications. Upon completion, students should be able to demonstrate competency in audio communications.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

BPT140 - Introduction to Media Productions

Overview

Subject code	Course Number	Department(s)
BPT	140	Audio and Video Production Technology

Description

This course introduces the basics of audio and video production. Emphasis is placed on file management, content licensing, editing software, equipment, and aesthetic and technical concepts in audio and video production. Upon completion, students should be able to demonstrate an understanding of content file standards and basic project management.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

BPT215 - Industry Career Preparation

Overview

Subject code	Course Number	Department(s)
BPT	215	Audio and Video Production Technology

Description

This course covers employment trends and job descriptions in media, research, resume development, industry best practices for showcasing competencies in technical skills, and interviewing skills. Emphasis is placed on preparing students for employment in various jobs in media.Upon completion, students should be able to research, analyze, and identify employment opportunties in industry that match skills mastered in the Audio and Video Production Technology Program.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

BPT220 - Emerging Technologies

Overview

Subject code	Course Number	Department(s)
BPT	220	Audio and Video Production Technology

Description

This course introduces advancements in technology, equipment, and/or software in the industry. Emphasis is placed on new and emerging content production trends in the audio and video industry. Upon completion, students should be able to adapt and utilize the most current audio and video technology.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

BPT231 - Video Production I

Overview

Subject code	Course Number	Department(s)
BPT	231	Audio and Video Production Technology

Description

This course is designed to develop technical abilities and a creative eye for producing effective videos. Emphasis is placed on fundamental techniques and aesthetics of planning, shooting, lighting, sound design, and editing. Upon completion, students should be able to create professional video productions in a team environment.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

BPT232 - Video Production II

Overview

Subject code	Course Number	Department(s)
BPT	232	Audio and Video Production Technology

Description

This course is designed to advance the study of video production learned in BPT 231 Video Production I and is designed to develop technical abilities and a creative eye for producing effective videos. Emphasis is placed on fundamental techniques and aesthetics of planning, shooting, lighting, sound design, and editing. Upon completion, students should be able to create professional video productions in a team environment.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

BPT235 - Video Performance I

Overview

Subject code	Course Number	Department(s)
BPT	235	Audio and Video Production Technology

Description

This course provides hands-on experience in the operation of video equipment. Emphasis is placed on the application of skills through direct participation in the production or distribution of video. Upon completion, students should be able to demonstrate competence in creating video content.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

BPT236 - Video Performance II

Overview

Subject code	Course Number	Department(s)
BPT	236	Audio and Video Production Technology

Description

This course is designed to advance the skills learned in BPT 235 Video Performance I and provides hands-on experience in the operation of video equipment. Emphasis is placed on the application of skills through direct participation in the production or distribution of video. Upon completion, students should be able to demonstrate competence in creating video content.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

BPT242 - Broadcast Journalism II

Overview

Subject code	Course Number	Department(s)
BPT	242	Audio and Video Production Technology

Description

This course provides an opportunity to gather, write, edit, and produce broadcast news reports. Emphasis is placed on producing professional broadcast news reports, including script writing, gathering, and editing. Upon completion, students should be able to produce and record professional broadcast news stories.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

BPT255 - Computer-Based Production

Overview

Subject code	Course Number	Department(s)
BPT	255	Audio and Video Production Technology

Description

This course covers editing software for multimedia production. Emphasis is placed on advanced digital editing software and techniques. Upon completion, students should be able to demonstrate advanced use of motion graphics, typography, image compositing, visual effects, and color correction.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

BUS110 - Introduction to Business

Overview

Subject code	Course Number	Department(s)
BUS	110	Business Administration

Description

This course provides a survey of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

BUS115 - Business Law I

Overview

Subject code	Course Number	Department(s)
BUS	115	Business Administration

Description

This course introduces the student to the legal and ethical framework of business. Contracts, negotiable instruments, the law of sales, torts, crimes, constitutional law, the Uniform Commercial Code, and the court systems are examined. Upon completion the student should be able to identify legal and ethical issues that arise in business decisions and the laws that apply to them.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

BUS125 - Personal Finance

Overview

Subject code	Course Number	Department(s)
BUS	125	Business Administration

Description

This course provides a study of individual and family financial decisions. Emphasis is placed on building useful skills in buying, managing finances, increasing resources, and coping with current economic conditions. Upon completion, students should be able to develop a personal financial plan.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

BUS135 - Principles of Supervision

Overview

Subject code	Course Number	Department(s)
BUS	135	Business Administration

Description

This course introduces the basic responsibilities and duties of the supervisor and his/her relationship to higher-level supervisors, subordinates, and associates. Emphasis is placed on effective utilization of the work force and understanding the role of the supervisor. Upon completion, students should be able to apply supervisory principles in the work place.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

BUS137 - Principles of Management

Overview

Subject code	Course Number	Department(s)
BUS	137	Business Administration

Description

This course is designed to be an overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

BUS139 - Entrepreneurship I

Overview

Subject code	Course Number	Department(s)
BUS	139	Business Administration

Description

This course provides an introduction to the principles of entrepreneurship. Topics include self-analysis of entrepreneurship readiness, the role of entrepreneur in economic development, legal problems, organizational structure, sources of financing, budgeting, and cash flow. Upon completion, students should have an understanding of the entrepreneurial process and issues faced by entrepreneurs.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

BUS153 - Human Resource Management

Overview

Subject code	Course Number	Department(s)
BUS	153	Business Administration

Description

This course introduces the functions of personnel/ human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

BUS230 - Small Business Management

Overview

Subject code	Course Number	Department(s)
BUS	230	Business Administration

Description

This course introduces the challenges of entrepreneurship including the startup and operation of a small business. Topics include market research techniques, feasibility studies, site analysis, financing alternatives, and managerial decision making. Upon completion, students should be able to develop a small business plan.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

BUS253 - Leadership and Management Skills

Overview

Subject code	Course Number	Department(s)
BUS	253	Business Administration

Description

This course includes a study of the qualities, behaviors, and personal styles exhibited by leaders. Emphasis is placed on coaching, counseling, team building, and employee involvement. Upon completion, students should be able to identify and exhibit the behaviors needed for organizational effectiveness.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

BUS260 - Business Communication

Overview

Subject code	Course Number	Department(s)
BUS	260	Business Administration

Description

This course is designed to develop skills in writing business communications. Emphasis is placed on business reports, correspondence, and professional presentations. Upon completion, students should be able to communicate effectively in the work place.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

BUS270 - Professional Development

Overview

Subject code	Course Number	Department(s)
BUS	270	Business Administration

Description

This course provides basic knowledge of self-improvement techniques as related to success in the professional world. Topics include positive human relations, job-seeking skills, and projecting positive self-image. Upon completion, students should be able to demonstrate competent personal and professional skills necessary to get and keep a job.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CAB111 - Cabinetmaking I

Overview

Subject code	Course Number	Department(s)
CAB	111	Building Construction Technology

Description

This course introduces wood technology, materials, purchasing, estimating, design considerations, and cabinet construction. Topics include wood identification and use, hand tools, safe machine operation, glue and clamping, abrasives, wood joinery, kitchen and bath layout, laminates, and finishing techniques. Upon completion, students should be able to select and process materials; make sound production decisions; and design, lay out, construct, and install cabinets.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
7

CAR111 - Carpentry I

Overview

Subject code	Course Number	Department(s)
CAR	111	Building Construction Technology

Description

This course introduces the theory and construction methods associated with the building industry, including framing, materials, tools, and equipment. Topics include safety, hand/power tool use, site preparation, measurement and layout, footings and foundations, construction framing, and other related topics. Upon completion, students should be able to safely lay out and perform basic framing skills with supervision.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
8

CAR112 - Carpentry II

Overview

Subject code	Course Number	Department(s)
CAR	112	Building Construction Technology

Description

This course covers the advanced theory and construction methods associated with the building industry including framing and exterior finishes. Topics include safety, hand/power tool use, measurement and layout, construction framing, exterior trim and finish, and other related topics. Upon completion, students should be able to safely frame and apply exterior finishes to a residential building with supervision.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
8

CAR113 - Carpentry III

Overview

Subject code	Course Number	Department(s)
CAR	113	Building Construction Technology

Description

This course covers interior trim and finishes. Topics include safety, hand/power tool use, measurement and layout, specialty framing, interior trim and finishes, cabinetry, and other related topics. Upon completion, students should be able to safely install various interior trim and finishes in a residential building with supervision.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
6

CAR120 - Commercial Carpentry I

Overview

Subject code	Course Number	Department(s)
CAR	120	Building Construction Technology

Description

This course introduces the theory and construction methods associated with general construction, including framing, materials, tools, and equipment. Topics include safety, hand/power tool use, blueprints, rigging, construction framing, windows, exterior doors, and other related topics. Upon completion, students should be able to safely demonstrate basic general carpentry skills with supervision.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
6

CAR150 - Concrete Construction

Overview

Subject code	Course Number	Department(s)
CAR	150	Building Construction Technology

Description

This course covers methods of erecting forms and placing concrete. Topics include safety, hand/power tool use, blueprints, rigging, form construction, reinforcement, and placement. Upon completion, students should be able to demonstrate skills in concrete construction procedures and processes with supervision.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
5

CAS110 - Perspectives on Child Maltreatment and Advocacy

Overview

Subject code	Course Number	Department(s)
CAS	110	Social and Human Services

Description

This course covers the critical examination of child maltreatment and advocacy. Emphasis is placed on the history, comparative perspectives, legal framework, responses to child maltreatment, pertinent issues in maltreatment and advocacy. Upon completion, students should be able to apply the knowledge and skills necessary for recognition and advocacy on behalf of child victims.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CAS120 - Cultural Awareness in Child Maltreatment & Advocacy

Overview

Subject code	Course Number	Department(s)
CAS	120	Social and Human Services

Description

This course is designed to deepen students' understanding of the intersection between cultural dynamics and child maltreatment, emphasizing the significance of cultural awareness in effective advocacy. Emphasis is placed on an exploration of diverse cultural contexts, promoting cultural competence as an integral aspect of advocating for the rights and well-being of children. Upon completion, students should be able to navigate the complexities of child maltreatment while respecting and valuing the diverse backgrounds of children and families.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CAS210 - Professional & Systems Responses to Child Maltreatment

Overview

Subject code	Course Number	Department(s)
CAS	210	Social and Human Services

Description

This course is designed to focus on the responses of professionals to allegations of child maltreatment. Emphasis is placed on the multifaceted nature of child abuse and neglect and explores evidence-based strategies for intervention, prevention, and collaboration across diverse professional settings. Upon completion, student should be able to identify the knowledge, skills, and ethical considerations essential for responding effectively to child maltreatment within various systems.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CAS220 - Responding to the Survivor of Child Abuse

Overview

Subject code	Course Number	Department(s)
CAS	220	Social and Human Services

Description

This course is designed to equip students with the knowledge, skills, and compassion necessary to effectively recognize and respond to the effects of child maltreatment. Emphasis is placed on intervention strategies for children and their families, exploring the multifaceted dimensions of child abuse, emphasizing trauma-informed approaches, and the cultivation of a supportive environment for survivors. Upon completion, students should be able to demonstrate the practical skills and compassionate mindset needed to effectively recognize, respond to, and support survivors of child maltreatment.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CCT112 - Ethics & High Technology

Overview

Subject code	Course Number	Department(s)
CCT	112	Information Technology

Description

This course introduces the ethical considerations and best practices for conducting technological investigations and addressing computer privacy concerns in the realm of cyber crime. Topics include the legal, ethical, moral, and privacy aspects applying high technology to cyber crime investigations. Upon completion students should be able to critically assess their ethical values and apply them effectively in cyber crime investigations.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CCT121 - Computer Crime Investigation

Overview

Subject code	Course Number	Department(s)
CCT	121	Information Technology

Description

This course introduces the fundamental principles of computer crime investigation processes. Topics include crime scene/incident processing, information gathering techniques, data retrieval, collection and preservation of evidence, preparation of reports and court presentations. Upon completion, students should be able to identify cyber crime activity and demonstrate proper investigative techniques to process the scene and assist in case prosecution.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

CCT250 - Network Vulnerabilities I

Overview

Subject code	Course Number	Department(s)
CCT	250	Information Technology

Description

This course introduces students to penetration testing, network vulnerabilities, and hacking. Topics include an overview of traditional network security, system hardening, and known weaknesses. Upon completion, students should be able to evaluate weaknesses of traditional and wireless network for the purpose of incident response, reconstruction, and forensic investigation.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CET111 - Computer Upgrade/ Repair I

Overview

Subject code	Course Number	Department(s)
CET	111	Computer Engineering Technology

Description

This course covers repairing, servicing, and upgrading computers and peripherals in preparation for industry certification. Topics include CPU/memory/ bus identification, disk subsystems, hardware/ software installation/configuration, common device drivers, data recovery, system maintenance, and other related topics. Upon completion, students should be able to safely repair and/or upgrade computer systems to perform within specifications.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CET130 - Operating Systems Principles

Overview

Subject code	Course Number	Department(s)
CET	130	Computer Engineering Technology

Description

This course introduces the concepts, usage, internals and applications of operating systems used in engineering technology. Topics include resource management, shells, schedulers, file systems, networking, software considerations and other related topics. Upon completion, students should be able to choose and evaluate an operating system for engineering applications.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CET161 - Procedural Programming

Overview

Subject code	Course Number	Department(s)
CET	161	Computer Engineering Technology

Description

This course introduces procedural computer programming for engineering applications. Emphasis is placed on event-driven programming methods, including creating and manipulating data, sequencing, iteration, and blocking of code. Upon completion, students should be able to design, code, test and debug at a beginning level.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CHM130 - General, Organic, & Biochemistry

Overview

Subject code
CHM

Course Number
130

Department(s)
Associate in Arts

Description
This course provides a survey of basic facts and principles of general, organic, and biochemistry. Topics include measurement, molecular structure, nuclear chemistry, solutions, acid-base chemistry, gas laws, and the structure, properties, and reactions of major organic and biological groups. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

CHM130A - General, Organic, & Biochemistry Lab

Overview

Subject code
CHM

Course Number
130A

Department(s)
Associate in Arts

Description
This course is a laboratory for CHM 130. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 130. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 130.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

CHM131 - Introduction to Chemistry

Overview

Subject code	Course Number	Department(s)
CHM	131	Associate in Science

Description

This course introduces the fundamental concepts of inorganic chemistry. Topics include measurement, matter and energy, atomic and molecular structure, nuclear chemistry, stoichiometry, chemical formulas and reactions, chemical bonding, gas laws, solutions, and acids and bases. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CHM131A - Introduction to Chemistry Lab

Overview

Subject code	Course Number	Department(s)
CHM	131A	Associate in Science

Description

This course is a laboratory to accompany CHM 131. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 131. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 131.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

CHM132 - Organic and Biochemistry

Overview

Subject code	Course Number	Department(s)
CHM	132	Associate in Science

Description

This course provides a survey of major functional classes of compounds in organic and biochemistry. Topics include structure, properties, and reactions of the major organic and biological molecules and basic principles of metabolism. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts needed to pursue studies in related professional fields.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

CHM151 - General Chemistry I

Overview

Subject code	Course Number	Department(s)
CHM	151	Associate in Science

Description

This course covers fundamental principles and laws of chemistry. Topics include measurement, atomic and molecular structure, periodicity, chemical reactions, chemical bonding, stoichiometry, thermochemistry, gas laws, and solutions. Upon completion, students should be able to demonstrate an understanding of fundamental chemical laws and concepts as needed in CHM 152.

CAA statement

This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

CHM152 - General Chemistry II

Overview

Subject code	Course Number	Department(s)
CHM	152	Associate in Science

Description

This course provides a continuation of the study of the fundamental principles and laws of chemistry. Topics include kinetics, equilibrium, ionic and redox equations, acid-base theory, electrochemistry, thermodynamics, introduction to nuclear and organic chemistry, and complex ions. Upon completion, students should be able to demonstrate an understanding of chemical concepts as needed to pursue further study in chemistry and related professional fields.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

CHM251 - Organic Chemistry I

Overview

Subject code	Course Number	Department(s)
CHM	251	Associate in Science

Description

This course provides a systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of hydrocarbons, alkyl halides, alcohols, and ethers; further topics include isomerization, stereochemistry, and spectroscopy. Upon completion, students should be able to demonstrate an understanding of the fundamental concepts of covered organic topics as needed in CHM 252.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

CHM252 - Organic Chemistry II

Overview

Subject code	Course Number	Department(s)
CHM	252	Associate in Science

Description

This course provides continuation of the systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of aromatics, aldehydes, ketones, carboxylic acids and derivatives, amines and heterocyclics; multi-step synthesis will be emphasized. Upon completion, students should be able to demonstrate an understanding of organic concepts as needed to pursue further study in chemistry and related professional fields.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

CIS110 - Introduction to Computers

Overview

Subject code	Course Number	Department(s)
CIS	110	Business Administration

Description

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CIS115 - Introduction to Programming and Logic

Overview

Subject code	Course Number	Department(s)
CIS	115	Information Technology

Description

This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to use top-down algorithm design and implement algorithmic solutions in a programming language.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CIV125 - Civil/Surveying CAD

Overview

Subject code	Course Number
CIV	125

Description

This course introduces civil/surveying computer-aided drafting (CAD) software. Topics include drawing, editing, and dimensioning commands; plotting; and other related civil/surveying topics. Upon completion, students should be able to produce civil/surveying drawings using CAD software.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CIV240 - Project Management

Overview

Subject code	Course Number	Department(s)
CIV	240	Building Construction Technology

Description

This course introduces construction planning and scheduling techniques and project management software. Topics include construction safety, operation analysis, construction scheduling, construction control systems, claims and dispute resolutions, project records and documentation. Upon completion, students should be able to demonstrate an understanding of the roles of construction project participants, maintain construction records, and prepare construction schedules.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CJC111 - Introduction to Criminal Justice

Overview

Subject code	Course Number	Department(s)
CJC	111	Criminal Justice Technology

Description

This course introduces the components and processes of the criminal justice system. Topics include history, structure, functions, and philosophy of the criminal justice system and their relationship to life in our society. Upon completion, students should be able to define and describe the major system components and their interrelationships and evaluate career options.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CJC112 - Criminology

Overview

Subject code	Course Number	Department(s)
CJC	112	Criminal Justice Technology

Description

This course introduces deviant behavior as it relates to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past, present, and future social control initiatives; and other related topics. Upon completion, students should be able to explain and discuss various theories of crime causation and societal response.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

CJC113 - Juvenile Justice

Overview

Subject code	Course Number	Department(s)
CJC	113	Criminal Justice Technology

Description

This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

CJC120 - Interviews/ Interrogations

Overview

Subject code	Course Number	Department(s)
CJC	120	Criminal Justice Technology

Description
This course covers basic and special techniques employed in criminal justice interviews and interrogations. Emphasis is placed on the interview/ interrogation process, including interpretation of verbal and physical behavior and legal perspectives. Upon completion, students should be able to conduct interviews/interrogations in a legal, efficient, and professional manner and obtain the truth from suspects, witnesses, and victims.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

CJC121 - Law Enforcement Operations

Overview

Subject code	Course Number	Department(s)
CJC	121	Criminal Justice Technology

Description
This course introduces fundamental law enforcement operations. Topics include the contemporary evolution of law enforcement operations and related issues. Upon completion, students should be able to explain theories, practices, and issues related to law enforcement operations.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

CJC122 - Community Policing

Overview

Subject code	Course Number	Department(s)
CJC	122	Criminal Justice Technology

Description

This course covers the historical, philosophical, and practical dimensions of community policing. Emphasis is placed on the empowerment of police and the community to find solutions to problems by forming partnerships. Upon completion, students should be able to define community policing, describe how community policing strategies solve problems, and compare community policing to traditional policing.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CJC131 - Criminal Law

Overview

Subject code	Course Number	Department(s)
CJC	131	Criminal Justice Technology

Description

This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CJC132 - Court Procedure & Evidence

Overview

Subject code	Course Number	Department(s)
CJC	132	Criminal Justice Technology

Description

This course covers judicial structure/process/ procedure from incident to disposition, kinds and degrees of evidence, and the rules governing admissibility of evidence in court. Topics include consideration of state and federal courts, arrest, search and seizure laws, exclusionary and statutory rules of evidence, and other related issues. Upon completion, students should be able to identify and discuss procedures necessary to establish a lawful arrest/search, proper judicial procedures, and the admissibility of evidence.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CJC141 - Corrections

Overview

Subject code	Course Number	Department(s)
CJC	141	Criminal Justice Technology

Description

This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CJC151 - Introduction to Loss Prevention

Overview

Subject code	Course Number	Department(s)
CJC	151	Criminal Justice Technology

Description

This course introduces the concepts and methods related to commercial and private security systems. Topics include the historical, philosophical, and legal basis of security, with emphasis on security surveys, risk analysis, and associated functions. Upon completion, students should be able to demonstrate and understand security systems, risk management, and the laws relative to loss prevention.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

CJC160 - Terrorism: Underlying Issues

Overview

Subject code	Course Number	Department(s)
CJC	160	Criminal Justice Technology

Description

This course identifies the fundamental reasons why America is a target for terrorists, covering various domestic/international terrorist groups and ideologies from a historical aspect. Emphasis is placed upon recognition of terrorist crime scene; weapons of mass destruction; chemical, biological, and nuclear terrorism; and planning considerations involving threat assessments. Upon completion, students should be able to identify and discuss the methods used in terrorists' activities and complete a threat assessment for terrorists' incidents.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CJC212 - Ethics & Community Relations

Overview

Subject code	Course Number	Department(s)
CJC	212	Criminal Justice Technology

Description

This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

CJC213 - Substance Abuse

Overview

Subject code	Course Number	Department(s)
CJC	213	Criminal Justice Technology

Description

This course is a study of substance abuse in our society. Topics include the history and classifications of drug abuse and the social, physical, and psychological impact of drug abuse. Upon completion, students should be able to identify various types of drugs, their effects on human behavior and society, and treatment modalities.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CJC221 - Investigative Principles

Overview

Subject code	Course Number	Department(s)
CJC	221	Criminal Justice Technology

Description

This course introduces the theories and fundamentals of the investigative process. Topics include crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, court presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

CJC222 - Criminalistics

Overview

Subject code	Course Number	Department(s)
CJC	222	Criminal Justice Technology

Description

This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CJC223 - Organized Crime

Overview

Subject code	Course Number	Department(s)
CJC	223	Criminal Justice Technology

Description

This course introduces the evolution of traditional and non-traditional organized crime and its effect on society and the criminal justice system. Topics include identifying individuals and groups involved in organized crime, areas of criminal activity, legal and political responses to organized crime, and other related topics. Upon completion, students should be able to identify the groups and activities involved in organized crime and the responses of the criminal justice system.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CJC225 - Crisis Intervention

Overview

Subject code	Course Number	Department(s)
CJC	225	Criminal Justice Technology

Description

This course introduces critical incident intervention and management techniques as they apply to operational criminal justice practitioners. Emphasis is placed on the victim/offender situation as well as job-related high stress, dangerous, or problem-solving citizen contacts. Upon completion, students should be able to provide insightful analysis of emotional, violent, drug-induced, and other critical and/or stressful incidents that require field analysis and/or resolution.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CJC231 - Constitutional Law

Overview

Subject code	Course Number	Department(s)
CJC	231	Criminal Justice Technology

Description

The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/ procedures as interpreted by the courts.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CJC232 - Civil Liability

Overview

Subject code	Course Number	Department(s)
CJC	232	Criminal Justice Technology

Description

This course covers liability issues for the criminal justice professional. Topics include civil rights violations, tort liability, employment issues, and other related topics. Upon completion, students should be able to explain civil trial procedures and discuss contemporary liability issues.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CJC255 - Issues in Criminal Justice Application

Overview

Subject code	Course Number	Department(s)
CJC	255	Criminal Justice Technology

Description

This course provides an opportunity to exhibit interpersonal and technical skills required for application of criminal justice concepts in contemporary practical situations. Emphasis is placed on critical thinking and integration of theory and practical skills components. Upon completion, students should be able to demonstrate the knowledge required of any entry-level law enforcement officer.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CMT120 - Codes and Inspections

Overview

Subject code	Course Number	Department(s)
CMT	120	Building Construction Technology

Description

This course covers building codes and the code inspections process used in the design and construction of residential and commercial buildings. Emphasis is placed on commercial, residential, and accessibility (ADA) building codes. Upon completion, students should understand the building code inspections process and apply building code principals and requirements to construction projects.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CMT210 - Construction Management Fundamentals

Overview

Subject code	Course Number	Department(s)
CMT	210	Building Construction Technology

Description

This course introduces the student to the fundamentals of effective supervision emphasizing professionalism through knowledge and applied skills. Topics include safety, planning and scheduling, contracts, problem-solving, communications, conflict resolution, recruitment, employment laws and regulations, leadership, motivation, teamwork, discipline, setting objectives, and training. Upon completion, students should be able to demonstrate the basic skills necessary to be successful as a supervisor in the construction industry.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CMT212 - Total Safety Performance

Overview

Subject code	Course Number	Department(s)
CMT	212	Building Construction Technology

Description

This course covers the importance of managing safety and productivity equally by encouraging people to take individual responsibility for safety and health in the workplace. Topics include safety management, controlling construction hazards, communicating and enforcing policies, OSHA compliance, personal responsibility and accountability, safety planning, training, and personal protective equipment. Upon completion, the student should be able to properly supervise safety at a construction jobsite and qualify for OSHA Training Certification.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CMT214 - Planning and Scheduling

Overview

Subject code	Course Number	Department(s)
CMT	214	Building Construction Technology

Description

This course covers the need for and the process of planning construction projects, as well as the mechanics and vocabulary of project scheduling. Topics include project preplanning, scheduling formats, planning for production, short interval planning, schedule updating and revising, and computer-based planning and scheduling. Upon completion, the student should be able to understand the need for planning and scheduling, the language and logic of scheduling, and use of planning skills.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

COM231 - Public Speaking

Overview

Subject code	Course Number	Department(s)
COM	231	Associate in Arts

Description

This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in communications.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

COM251 - Debate I

Overview

Subject code	Course Number	Department(s)
COM	251	Associate in Arts

Description

This course introduces the principles of debate. Emphasis is placed on argument, refutation, research, and logic. Upon completion, students should be able to use research skills and logic in the presentation of ideas within the context of formal debate.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in communications.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

COS111 - Cosmetology Concepts I

Overview

Subject code	Course Number	Department(s)
COS	111	Cosmetology

Description

This course introduces basic cosmetology concepts. Topics include safety, first aid, sanitation, bacteriology, anatomy, diseases and disorders, hygiene, product knowledge, chemistry, ethics, manicures, and other related topics. Upon completion, students should be able to safely and competently apply cosmetology concepts in the salon setting.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

COS112 - Salon I

Overview

Subject code	Course Number	Department(s)
COS	112	Cosmetology

Description

This course introduces basic salon services. Topics include scalp treatments, shampooing, rinsing, hair color, design, haircutting, permanent waving, pressing, relaxing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate salon services.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
8

COS113 - Cosmetology Concepts II

Overview

Subject code	Course Number	Department(s)
COS	113	Cosmetology

Description

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, chemistry, manicuring, chemical restructuring, and hair coloring. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

COS114 - Salon II

Overview

Subject code	Course Number	Department(s)
COS	114	Cosmetology

Description

This course provides experience in a simulated salon setting. Topics include basic skin care, manicuring, nail application, scalp treatments, shampooing, rinsing, hair color, design, haircutting, chemical restructuring, pressing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
8

COS115 - Cosmetology Concepts III

Overview

Subject code	Course Number	Department(s)
COS	115	Cosmetology

Description

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, salon management, salesmanship, skin care, electricity/light therapy, wigs, thermal hair styling, lash and brow tinting, superfluous hair removal, and other related topics. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

COS116 - Salon III

Overview

Subject code	Course Number	Department(s)
COS	116	Cosmetology

Description

This course provides comprehensive experience in a simulated salon setting. Emphasis is placed on intermediate-level of skin care, manicuring, scalp treatments, shampooing, hair color, design, haircutting, chemical restructuring, pressing, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

COS117 - Cosmetology Concepts IV

Overview

Subject code	Course Number	Department(s)
COS	117	Cosmetology

Description

This course covers advanced cosmetology concepts. Topics include chemistry and hair structure, advanced cutting and design, and an overview of all cosmetology concepts in preparation for the licensing examination. Upon completion, students should be able to demonstrate an understanding of these cosmetology concepts and meet program completion requirements.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

COS118 - Salon IV

Overview

Subject code	Course Number	Department(s)
COS	118	Cosmetology

Description

This course provides advanced experience in a simulated salon setting. Emphasis is placed on efficient and competent delivery of all salon services in preparation for the licensing examination and employment. Upon completion, students should be able to demonstrate competence in program requirements and the areas covered on the Cosmetology Licensing Examination and meet entry-level employment requirements.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
7

COS119 - Esthetics Concepts I

Overview

Subject code	Course Number	Department(s)
COS	119	Esthetics Technology

Description

This course covers the concepts of esthetics. Topics include orientation, anatomy, physiology, hygiene, sterilization, first aid, chemistry, basic dermatology, and professional ethics. Upon completion, students should be able to demonstrate an understanding of the concepts of esthetics and meet course requirements.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

COS120 - Esthetics Salon I

Overview

Subject code	Course Number	Department(s)
COS	120	Esthetics Technology

Description

This course covers the techniques of esthetics in a comprehensive experience in a simulated salon setting. Topics include client consultation, facials, body treatments, hair removal, make-up applications, and color analysis. Upon completion, students should be able to safely and competently demonstrate esthetic services on clients in a salon setting.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
6

COS121 - Manicure/Nail Technology I

Overview

Subject code	Course Number	Department(s)
COS	121	Manicuring/Nail Technology

Description

This course covers techniques of nail technology, hand and arm surface manipulation, and recognition of nail diseases and disorders. Topics include OSHA/ safety, sanitation, bacteriology, product knowledge, salesmanship, manicures, artificial applications, pedicures, surface manipulation, and other related topics. Upon completion, students should be able to safely and competently perform nail care, including manicures, pedicures, surface manipulations, decorating and artificial applications in a salon setting.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
6

COS125 - Esthetics Concepts II

Overview

Subject code	Course Number	Department(s)
COS	125	Esthetics Technology

Description

This course covers more comprehensive esthetics concepts. Topics include nutrition, business management, makeup, and color analysis. Upon completion students should be able to demonstrate an understanding of the advanced esthetics concepts and meet course requirements.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

COS126 - Esthetics Salon II

Overview

Subject code	Course Number	Department(s)
COS	126	Esthetics Technology

Description

This course provides experience in a simulated esthetics setting. Topics include machine facials, aromatherapy, surface manipulation in relation to skin care, electricity, and apparatus. Upon completion, students should be able to demonstrate competence in program requirements and the areas covered on the Cosmetology licensing examination for Estheticians.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
6

COS222 - Manicure/Nail Tech. II

Overview

Subject code	Course Number	Department(s)
COS	222	Manicuring/Nail Technology

Description

This course covers advanced techniques of nail technology and hand and arm surface manipulation. Topics include OSHA/safety, product knowledge, customer service, salesmanship, artificial applications, nail art, and other related topics. Upon completion, students should be able to demonstrate competence necessary for the licensing examination, including advanced nail care, artificial enhancements, and decorations.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
6

COS223 - Contemporary Hair Coloring

Overview

Subject code	Course Number	Department(s)
COS	223	Cosmetology

Description

This course covers basic color concepts, hair coloring problems, and application techniques. Topics include color theory, terminology, contemporary techniques, product knowledge, and other related topics. Upon completion, students should be able to identify a clients color needs and safely and competently perform color applications and correct problems.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

COS251 - Manicure Instructional Concepts

Overview

Subject code	Course Number	Department(s)
COS	251	Manicuring Instructor (Certificate)

Description

This course introduces manicuring instructional concepts. Topics include orientation, theories of education, unit planning, daily lesson planning, laboratory management, student assessment, record keeping, and other related topics. Upon completion, students should be able to identify theories of education, develop lesson plans, demonstrate supervision techniques, and assess student classroom performance.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
8

COS252 - Manicure Instructional Practicum

Overview

Subject code	Course Number	Department(s)
COS	252	Manicuring Instructor (Certificate)

Description

This course covers supervisory and instructional skills for teaching manicuring students in a laboratory setting. Topics include demonstrations of services, supervision, student assessment, and other related topics. Upon completion, students should be able to demonstrate competence in the areas covered by the Manicuring Instructor Licensing Examination and meet program completion requirements.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
5

COS253 - Esthetics Instructional Concepts I

Overview

Subject code	Course Number	Department(s)
COS	253	Esthetics Instructor

Description

This course introduces esthetic instructional concepts and skills. Topics include orientation, theories of education, unit planning, daily lesson plans, laboratory management, student assessment in a laboratory setting. Upon completion, students should be able to demonstrate esthetic services and instruct and objectively assess student performance in a classroom setting.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
11

COS254 - Esthetic Instructional Concepts II

Overview

Subject code	Course Number	Department(s)
COS	254	Esthetics Instructor

Description

This course covers advanced esthetic instructional concepts and skills. Topics include practical demonstrations, lesson planning, lecture techniques, development and administration of assessment tools, record keeping and other related topics. Upon completion,students should be able to demonostrate competencies in the areas covered by the Esthetics Instructor Licensing Examination and meet program requirements.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
11

COS271 - Instructor Concepts I

Overview

Subject code
COS

Course Number
271

Department(s)
Cosmetology Instructor (Certificate)

Description

This course introduces the basic cosmetology instructional concepts. Topics include orientation, theories of education, unit planning, daily lesson planning, laboratory management, student assessment, record keeping, and other related topics. Upon completion, students should be able to identify theories of education, develop lesson plans, demonstrate supervisory techniques, and assess student performance in a classroom setting.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
5

COS272 - Instructor Practicum I

Overview

Subject code
COS

Course Number
272

Department(s)
Cosmetology Instructor (Certificate)

Description

This course covers supervisory and instructional skills for teaching entry-level cosmetology students in a laboratory setting. Topics include demonstrations of services, supervision, and entry-level student assessment. Upon completion, students should be able to demonstrate salon services and instruct and objectively assess the entry-level student.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
7

COS273 - Instructor Concepts II

Overview

Subject code	Course Number	Department(s)
COS	273	Cosmetology Instructor (Certificate)

Description

This course covers advanced cosmetology instructional concepts. Topics include practical demonstrations, lesson planning, lecture techniques, development and administration of assessment tools, record keeping, and other related topics. Upon completion, students should be able to develop lesson plans, demonstrate supervision techniques, assess student performance in a classroom setting, and keep accurate records.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
5

COS274 - Instructor Practicum II

Overview

Subject code	Course Number	Department(s)
COS	274	Cosmetology Instructor (Certificate)

Description

This course is designed to develop supervisory and instructional skills for teaching advanced cosmetology students in a laboratory setting. Topics include practical demonstrations, supervision, and advanced student assessment. Upon completion, students should be able to demonstrate competence in the areas covered by the Instructor Licensing Examination and meet program completion requirements.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
7

CSC113 - Artificial Intelligence Fundamentals

Overview

Subject code	Course Number	Department(s)
CSC	113	Information Technology

Description

This course provides a survey of artificial intelligence and machine learning. Topics include the history, development, and current applications of artificial intelligence and machine learning. Upon completion, students should be able to demonstrate general artificial intelligence and machine learning concepts.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CSC114 - Artificial Intelligence I

Overview

Subject code	Course Number	Department(s)
CSC	114	Information Technology

Description

This course covers the study of intelligent agent design and rational decision making. Topics include goal-driven agents, search techniques, optimization, basic problem-solving methods, logic, knowledge-based agents, statistical and probabilistic reasoning, and the basics of machine learning. Upon completion, students should be able to demonstrate artificial intelligence design concepts.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CSC115 - Machine Learning I

Overview

Subject code	Course Number	Department(s)
CSC	115	Information Technology

Description

This course covers algorithms for enabling artificial systems. Topics include machine learning from experience, supervised and unsupervised learning, reinforcement learning control, and learning theory. Upon completion, students should be able to demonstrate machine-learning techniques.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CSC117 - Artificial Intelligence Tools I

Overview

Subject code	Course Number	Department(s)
CSC	117	Information Technology

Description

This course covers modern artificial intelligence tools, concepts, and technologies. Topics include theory and hands-on training across multiple artificial intelligence subdomains. Upon completion, students should be able to implement AI platforms that could improve safety, efficiency, accuracy, problem-solving, cost-savings, and the creation of new business opportunities.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CSC121 - Python Programming

Overview

Subject code	Course Number	Department(s)
CSC	121	Information Technology

Description

This course introduces computer programming using the Python programming language. Emphasis is placed on common algorithms and programming principles utilizing the standard library distributed with Python. Upon completion, students should be able to design, code, test, and debug Python language programs.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CSC134 - C++ Programming

Overview

Subject code	Course Number	Department(s)
CSC	134	Information Technology

Description

This course introduces computer programming using the C++ programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CSC139 - Visual BASIC Programming

Overview

Subject code	Course Number	Department(s)
CSC	139	Information Technology

Description

This course introduces computer programming using the Visual BASIC programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

CSC151 - JAVA Programming

Overview

Subject code	Course Number	Department(s)
CSC	151	Information Technology

Description

This course introduces computer programming using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion students should be able to design, code, test, debug JAVA language programs.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

CSC221 - Advanced Python Programming

Overview

Subject code	Course Number	Department(s)
CSC	221	Information Technology

Description

This course introduces advanced computer programming using the Python programming language. Emphasis is placed on the advanced programming concepts including advanced algorithms and programming principles utilizing standard and third party library tools. Upon completion, students should be able to design, code, test, and debug advanced Python language programs.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CSC234 - Advanced C++ Programming

Overview

Subject code	Course Number	Department(s)
CSC	234	Information Technology

Description

This course is a continuation of CSC 134 using the C++ programming language with standard programming principles. Emphasis is placed on advanced arrays/tables, file management/processing techniques, data structures, sub-programs, interactive processing, sort/merge routines, and libraries. Upon completion, students should be able to design, code, test, debug and document programming solutions.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

CSC239 - Advanced Visual BASIC Programming

Overview

Subject code	Course Number	Department(s)
CSC	239	Information Technology

Description

This course is a continuation of CSC 139 using the Visual BASIC programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

CSC251 - Advanced JAVA Programming

Overview

Subject code	Course Number	Department(s)
CSC	251	Information Technology

Description

This course is a continuation of CSC 151 using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

CSC289 - Programming Capstone Project

Overview

Subject code
CSC

Course Number
289

Description
This course provides an opportunity to complete a significant programming project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, testing, presentation, and implementation. Upon completion, students should be able to complete a project from the definition phase through implementation.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
3

CST111 - Construction I

Overview

Subject code
CST

Course Number
111

Department(s)
Building Construction Technology

Description
This course covers standard and alternative building methods to include wall framing. Topics include safety and footings, foundations, floor framing systems, and wall framing systems commonly used in the construction industry. Upon completion, students should be able to safely erect all framing necessary to begin roof framing.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
4

CST112 - Construction II

Overview

Subject code	Course Number	Department(s)
CST	112	Building Construction Technology

Description

This course covers building methods and materials used to dry-in a building. Topics include safety, ceiling/roof framing applications, roof finishes, windows, and exterior doors. Upon completion, students should be able to safely erect different roof types and properly install windows and exterior doors, roofing, and exterior finish materials.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

CST113 - Construction III

Overview

Subject code	Course Number	Department(s)
CST	113	Building Construction Technology

Description

This course covers building methods and materials used to complete the interior of a structure. Topics include safety, installation of thermal and acoustical barriers, and interior finishes including millwork, cabinets, interior doors, flooring, and wall treatments. Upon completion, students should be able to safely and accurately install interior treatments including insulation, paneling, drywall, molding, doors, flooring, and cabinetry.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

CST131 - OSHA/Safety/ Certification

Overview

Subject code	Course Number	Department(s)
CST	131	Building Construction Technology

Description

This course covers the concepts of work site safety. Topics include OSHA regulations, tool safety, and certifications which relate to the construction industry. Upon completion, students should be able to identify and maintain a safe working environment based on OSHA regulations and maintain proper records and certifications.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CST211 - Construction Surveying

Overview

Subject code	Course Number	Department(s)
CST	211	Building Construction Technology

Description

This course covers field surveying applications for residential and commercial construction. Topics include building layout and leveling, linear measurement and turning angles, plumbing vertical members, and topographic and utilities surveys. Upon completion, students should be able to properly and accurately use surveying equipment to lay out residential and commercial buildings.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CST220 - Seismic & Load Estimating

Overview

Subject code	Course Number	Department(s)
CST	220	Building Construction Technology

Description

This course covers the principles of basic load estimating as applied to the structure of a building. Topics include forces applied to a structure due to seismic activity, wind zones and live and dead loads according to current NC Building Code, manufacturer's span charts, or load design software. Upon completion, students should be able to demonstrate an understanding of the forces applied to structures and building materials.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

CST232 - Basic Construction Equipment Ops

Overview

Subject code	Course Number	Department(s)
CST	232	Building Construction Technology

Description

This course is designed to prepare individuals familiarization with various construction equipment. Topics include safety practices, blueprint reading, layout, environmental issues, control familiarization, backfilling, tamping, trenching, rigging, digging footers, and correctly entering and exiting heavy equipment. Upon completion, students will demonstrate an understanding of basic construction equipment often used on building construction sites.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

CST241 - Planning/ Estimating I

Overview

Subject code	Course Number	Department(s)
CST	241	Building Construction Technology

Description

This course covers the procedures involved in planning and estimating a construction/building project. Topics include Construction Specifications Institute (CSI) MasterFormat and performing quantity takeoffs of materials required for a building project. Upon completion, students should be able to accurately complete a take-off of materials and equipment needs involved in a construction project.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CST244 - Sustainable Building Design

Overview

Subject code	Course Number	Department(s)
CST	244	Building Construction Technology

Description

This course is designed to increase student knowledge about integrating sustainable design principles and green building technologies into mainstream residential construction practices. Emphasis is placed on reducing negative environmental impact and improving building performance, indoor air quality and the comfort of a building's occupants. Upon completion, students should be able to identify principles of green building, environmental efficiency and conservation of natural resources in relation to basic construction practices.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CST251 - Electrical Wiring Systems

Overview

Subject code	Course Number	Department(s)
CST	251	Building Construction Technology

Description

This course introduces residential and commercial electrical wiring systems. Topics include safety, care and use of tools and materials, use of NEC, circuit planning, overcurrent protection, and installation of conduits, cables, and conductors. Upon completion, students should be able to correctly identify tools, materials, and procedures for electrical installation.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

CST260 - General Contractor Preparation

Overview

Subject code	Course Number	Department(s)
CST	260	Building Construction Technology

Description

This course prepares students who seek to become a limited licensed North Carolina general contractor. Topics include construction law, regulations & business, license applications, NC State Building Code, safety, construction techniques, concrete, masonry, steel construction, roofing, trusses, accessibility, design, environmental issues, and other relevant topics. Upon completion, students should possess the necessary knowledge to sit for the North Carolina Licensing Board's General Contractor's exam.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CTI110 - Information Technology Foundations

Overview

Subject code	Course Number	Department(s)
CTI	110	Information Technology

Description

This course provides an introduction to technology concepts and current trends in IT. Topics include foundational concepts across various IT domains such as, but not limited to, artificial intelligence, database fundamentals, programming principles, and web development. Upon completion, students should be able to demonstrate knowledge in core IT areas and apply skills critical for their academic and professional success.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CTI120 - Network and Security Foundations

Overview

Subject code	Course Number	Department(s)
CTI	120	Information Technology

Description

This course introduces students to the Network concepts, including networking terminology and protocols, local and wide area networks, and network standards. Emphasis is placed on securing information systems and the various implementation policies. Upon completion, students should be able to perform basic tasks related to networking mathematics, terminology, media and protocols.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CTI141 - Cloud and Storage Concepts

Overview

Subject code	Course Number	Department(s)
CTI	141	Information Technology

Description
This course introduces cloud computing and storage concepts. Emphasis is placed on cloud terminology, virtualization, storage networking and access control. Upon completion, students should be able to perform tasks related to installation, configuration and management of cloud storage systems.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
3

CTS115 - Information Systems Business Concepts

Overview

Subject code	Course Number	Department(s)
CTS	115	Information Technology

Description
The course introduces the role of IT in managing business processes and the need for business process and IT alignment. Emphasis is placed on industry need for understanding business challenges and developing/managing information systems to contribute to the decision making process based on these challenges. Upon completion, students should be able to demonstrate knowledge of the 'hybrid business manager' and the potential offered by new technology and systems.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
3

CTS120 - Hardware/Software Support

Overview

Subject code	Course Number	Department(s)
CTS	120	Information Technology

Description

This course covers the basic hardware of a personal computer, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade/maintain existing equipment and software, and troubleshoot/repair non-functioning personal computers.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

CTS130 - Spreadsheet

Overview

Subject code	Course Number	Department(s)
CTS	130	Business Administration

Description

This course introduces basic spreadsheet design and development. Topics include writing formulas, using functions, enhancing spreadsheets, creating charts, and printing. Upon completion, students should be able to design and print basic spreadsheets and charts.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CTS240 - Project Management

Overview

Subject code	Course Number	Department(s)
CTS	240	Information Technology

Description

This course introduces computerized project management software. Topics include identifying critical paths, cost management, and problem solving. Upon completion, students should be able to plan a complete project and project time and costs accurately.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CTS287 - Emerging Technologies

Overview

Subject code	Course Number	Department(s)
CTS	287	Information Technology

Description

This course introduces emerging information technologies. Emphasis is placed on evolving technologies and trends in business and industry. Upon completion, students should be able to articulate an understanding of the current trends and issues in emerging technologies for information systems.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

CTS289 - System Support Project

Overview

Subject code	Course Number
CTS	289

Description

This course provides an opportunity to complete a significant support project with minimal instructor assistance. Emphasis is placed on written and oral communication skills, project definition, documentation, installation, testing, presentation, and user training. Upon completion, students should be able to complete a project from the definition phase through implementation.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

DBA110 - Database Concepts

Overview

Subject code	Course Number	Department(s)
DBA	110	Information Technology

Description

This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports, and forms.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

DDF211 - Design Process I

Overview

Subject code	Course Number	Department(s)
DDF	211	Mechanical Engineering Technology

Description

This course emphasizes design processes for finished products. Topics include data collection from manuals and handbooks, efficient use of materials, design sketching, specifications, and vendor selection. Upon completion, students should be able to research and plan the design process for a finished product.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

DDF221 - Design Drafting Project

Overview

Subject code	Course Number
DDF	221

Description

This course incorporates ideas from concept to final design. Topics include reverse engineering, design for manufacturability, and mock-up construction. Upon completion, students should be able to generate working drawings and models based on physical design parameters.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

DDT110 - Intellectual & Developmental Disabilities

Overview

Subject code	Course Number	Department(s)
DDT	110	Social and Human Services

Description

This course covers intellectual and developmental disabilities. Emphasis is placed on causes of intellectual/developmental disabilities, service provision and advocacy. Upon completion, students should be able to demonstrate a general knowledge of serving individuals with intellectual/developmental disabilities.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

DEN100 - Basic Orofacial Anatomy

Overview

Subject code	Course Number	Department(s)
DEN	100	Dental Assisting

Description

This course provides a basic introduction to the structures of the head, neck, and oral cavity. Topics include tooth morphology, head and neck anatomy, histology, and embryology. Upon completion, students should be able to demonstrate knowledge of normal structures and development and how they relate to the practice of dental assisting.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
2

DEN101 - Preclinical Procedures

Overview

Subject code	Course Number	Department(s)
DEN	101	Dental Assisting

Description

This course provides instruction in procedures for the clinical dental assistant as specified by the North Carolina Dental Practice Act. Emphasis is placed on orientation to the profession, infection control techniques, instruments, related expanded functions, and diagnostic, operative, and specialty procedures. Upon completion, students should be able to demonstrate proficiency in clinical dental assisting procedures.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
7

DEN102 - Dental Materials

Overview

Subject code	Course Number	Department(s)
DEN	102	Dental Assisting

Description

This course provides instruction in identification, properties, evaluation of quality, principles, and procedures related to manipulation and storage of operative and specialty dental materials. Emphasis is placed on the understanding and safe application of materials used in the dental office and laboratory. Upon completion, students should be able to demonstrate proficiency in the laboratory and clinical application of routinely used dental materials.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

DEN103 - Dental Sciences

Overview

Subject code	Course Number	Department(s)
DEN	103	Dental Assisting

Description

This course is a study of oral pathology, pharmacology, and dental office emergencies. Topics include oral pathological conditions, dental therapeutics, and management of emergency situations. Upon completion, students should be able to recognize abnormal oral conditions, identify classifications, describe actions and effects of commonly prescribed drugs, and respond to medical emergencies.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

DEN104 - Dental Health Education

Overview

Subject code	Course Number	Department(s)
DEN	104	Dental Assisting

Description

This course covers the study of preventive dentistry to prepare dental assisting students for the role of dental health educator. Topics include etiology of dental diseases, preventive procedures, and patient education theory and practice. Upon completion, students should be able to demonstrate proficiency in patient counseling and oral health instruction in private practice or public health settings.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

DEN105 - Practice Management

Overview

Subject code	Course Number	Department(s)
DEN	105	Dental Assisting

Description

This course provides a study of principles and procedures related to management of the dental practice. Emphasis is placed on maintaining clinical and financial records, patient scheduling, and supply and inventory control. Upon completion, students should be able to demonstrate fundamental skills in dental practice management.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

DEN106 - Clinical Practice I

Overview

Subject code	Course Number	Department(s)
DEN	106	Dental Assisting

Description

This course is designed to provide experience assisting in a clinical setting. Emphasis is placed on the application of principles and procedures of four-handed dentistry and laboratory and clinical support functions. Upon completion, students should be able to utilize classroom theory and laboratory and clinical skills in a dental setting.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
6

DEN107 - Clinical Practice II

Overview

Subject code	Course Number	Department(s)
DEN	107	Dental Assisting

Description

This course is designed to increase the level of proficiency in assisting in a clinical setting. Emphasis is placed on the application of principles and procedures of four-handed dentistry and laboratory and clinical support functions. Upon completion, students should be able to combine theoretical and ethical principles necessary to perform entry-level skills including functions delegable to a DA II.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
5

DEN110 - Orofacial Anatomy

Overview

Subject code	Course Number	Department(s)
DEN	110	Dental Hygiene

Description

This course introduces the structures of the head, neck, and oral cavity. Topics include tooth morphology, head and neck anatomy, histology, and embryology. Upon completion, students should be able to relate the identification of normal structures and development to the practice of dental assisting and dental hygiene.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

DEN111 - Infection/Hazard Control

Overview

Subject code	Course Number	Department(s)
DEN	111	Dental Assisting

Description

This course introduces the infection and hazard control procedures necessary for the safe practice of dentistry. Topics include microbiology, practical infection control, sterilization and monitoring, chemical disinfectants, aseptic technique, infectious diseases, OSHA standards, and applicable North Carolina laws. Upon completion, students should be able to understand infectious diseases, disease transmission, infection control procedures, biohazard management, OSHA standards, and applicable North Carolina laws.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

DEN112 - Dental Radiography

Overview

Subject code	Course Number	Department(s)
DEN	112	Dental Assisting

Description

This course provides a comprehensive view of the principles and procedures of radiology as they apply to dentistry. Topics include techniques in exposing, processing, and evaluating radiographs, as well as radiation safety, quality assurance, and legal issues. Upon completion, students should be able to demonstrate proficiency in the production of diagnostically acceptable radiographs using appropriate safety precautions.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

DEN120 - Dental Hygiene Preclinic Lecture

Overview

Subject code	Course Number	Department(s)
DEN	120	Dental Hygiene

Description

This course introduces preoperative and clinical dental hygiene concepts. Emphasis is placed on the assessment phase of patient care as well as the theory of basic dental hygiene instrumentation. Upon completion, students should be able to collect and evaluate patient data at a basic level and demonstrate knowledge of dental hygiene instrumentation.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

DEN121 - Dental Hygiene Preclinical Lab

Overview

Subject code	Course Number	Department(s)
DEN	121	Dental Hygiene

Description

This course provides the opportunity to perform clinical dental hygiene procedures discussed in DEN 120. Emphasis is placed on clinical skills in patient assessment and instrumentation techniques. Upon completion, students should be able to demonstrate the ability to perform specific preclinical procedures.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

DEN123 - Nutrition/Dental Health

Overview

Subject code	Course Number	Department(s)
DEN	123	Dental Hygiene

Description

This course introduces basic principles of nutrition with emphasis on nutritional requirements and their application to individual patient needs. Topics include the study of Federal Nutritional Guidelines, nutrient functions, Recommended Daily Allowances, Adequate Intake, Tolerable Upper Intake Level, Estimated Average Requirement, and related psychological principles. Upon completion, students should be able to recommend and counsel individuals on their food intake as related to their dental health.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

DEN124 - Periodontology

Overview

Subject code	Course Number	Department(s)
DEN	124	Dental Hygiene

Description

This course provides an in-depth study of the periodontium, periodontal pathology, periodontal monitoring, and the principles of periodontal therapy. Topics include periodontal anatomy and a study of the etiology, classification, and treatment modalities of periodontal diseases. Upon completion, students should be able to describe, compare, and contrast techniques involved in periodontal/maintenance therapy, as well as patient care management.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

DEN125 - Dental Office Emergencies

Overview

Subject code	Course Number	Department(s)
DEN	125	Dental Hygiene

Description

This course provides a study of the management of dental office emergencies. Topics include methods of prevention, necessary equipment/drugs, medicolegal considerations, recognition and effective initial management of a variety of emergencies. Upon completion, the student should be able to recognize, assess and manage various dental office emergencies and activate advanced medical support when indicated.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
1

DEN130 - Dental Hygiene Theory I

Overview

Subject code	Course Number	Department(s)
DEN	130	Dental Hygiene

Description

This course is a continuation of the didactic dental hygiene concepts necessary for providing an oral prophylaxis. Topics include deposits/removal, instrument sharpening, patient education, fluorides, planning for dental hygiene treatment, charting, and clinical records and procedures. Upon completion, students should be able to demonstrate knowledge needed to complete a thorough oral prophylaxis.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

DEN131 - Dental Hygiene Clinic I

Overview

Subject code	Course Number	Department(s)
DEN	131	Dental Hygiene

Description

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of the recall patients with gingivitis or light deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

DEN140 - Dental Hygiene Theory II

Overview

Subject code	Course Number	Department(s)
DEN	140	Dental Hygiene

Description

This course introduces principles in treatment modification. Topics include modification of treatment for pain management and advanced radiographic interpretation. Upon completion, students should be able to differentiate necessary treatment modifications, radiographic abnormalities, and be certified in the administration of local anesthesia.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

DEN141 - Dental Hygiene Clinic II

Overview

Subject code	Course Number	Department(s)
DEN	141	Dental Hygiene

Description

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of patients with early periodontal disease and subgingival deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

DEN220 - Dental Hygiene Theory III

Overview

Subject code	Course Number	Department(s)
DEN	220	Dental Hygiene

Description

This course introduces advanced principles of patient care. Topics include advanced periodontal debridement, subgingival irrigation, air polishing, special needs and case presentations. Upon completion, students should be able to demonstrate knowledge of methods of treatment and management of periodontally compromised and special needs patients.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

DEN221 - Dental Hygiene Clinic III

Overview

Subject code	Course Number	Department(s)
DEN	221	Dental Hygiene

Description

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of patients with moderate to advanced periodontal involvement and moderate deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

DEN222 - General & Oral Pathology

Overview

Subject code	Course Number	Department(s)
DEN	222	Dental Hygiene

Description

This course provides a general knowledge of oral pathological manifestations associated with selected systemic and oral diseases. Topics include developmental and degenerative diseases, selected microbial diseases, specific and nonspecific immune and inflammatory responses with emphasis on recognizing abnormalities. Upon completion, students should be able to differentiate between normal and abnormal tissues and refer unusual findings to the dentist for diagnosis.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

DEN223 - Dental Pharmacology

Overview

Subject code	Course Number	Department(s)
DEN	223	Dental Hygiene

Description

This course provides basic drug terminology, general principles of drug actions, dosages, routes of administration, adverse reactions, and basic principles of anesthesiology. Emphasis is placed on knowledge of drugs in overall understanding of patient histories and health status. Upon completion, students should be able to recognize that each patient's general health or drug usage may require modification of the treatment procedures.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

DEN224 - Materials and Procedures

Overview

Subject code	Course Number	Department(s)
DEN	224	Dental Hygiene

Description

This course introduces the physical properties of materials and related procedures used in dentistry. Topics include restorative and preventive materials, fabrication of casts and appliances, and chairside functions of the dental hygienist. Upon completion, students should be able to demonstrate proficiency in the laboratory and/or clinical application of routinely used dental materials and chairside functions.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

DEN230 - Dental Hygiene Theory IV

Overview

Subject code	Course Number	Department(s)
DEN	230	Dental Hygiene

Description

This course provides an opportunity to increase knowledge of the profession. Emphasis is placed on dental specialties, technological advances, and completion of a case study presentation. Upon completion, students should be able to demonstrate knowledge of various disciplines of dentistry, technological advances and principles of case presentations.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
1

DEN231 - Dental Hygiene Clinic IV

Overview

Subject code	Course Number	Department(s)
DEN	231	Dental Hygiene

Description

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on periodontal maintenance and on treating patients with moderate to advanced/refractory periodontal disease. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

DEN232 - Community Dental Health

Overview

Subject code	Course Number	Department(s)
DEN	232	Dental Hygiene

Description

This course provides a study of the principles and methods used in assessing, planning, implementing, and evaluating community dental health programs. Topics include epidemiology, research methodology, biostatistics, preventive dental care, dental health education, program planning, and financing and utilization of dental services. Upon completion, students should be able to assess, plan, implement, and evaluate a community dental health program.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

DEN233 - Professional Development

Overview

Subject code	Course Number	Department(s)
DEN	233	Dental Hygiene

Description

This course includes professional development, ethics, and jurisprudence with applications to practice management. Topics include conflict management, state laws, resumes, interviews, and legal liabilities as health care professionals. Upon completion, students should be able to demonstrate the ability to practice dental hygiene within established ethical standards and state laws.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

DES135 - Principles and Elements of Design I

Overview

Subject code
DES

Course Number
135

Department(s)
Graphic Design

Description

This course introduces the basic concepts and terminology of design as they relate to the design profession. Topics include line, pattern, space, mass, shape, texture, color, unity, variety, rhythm, emphasis, balance, proportion, scale, and function. Upon completion, students should be able to demonstrate an understanding of the principles covered through 2D and 3D exploration.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
4

DFT111 - Technical Drafting I

Overview

Subject code
DFT

Course Number
111

Description

This course introduces basic drafting skills, equipment, and applications. Topics include sketching, measurements, lettering, dimensioning, geometric construction, orthographic projections and pictorials drawings, sections, and auxiliary views. Upon completion, students should be able to understand and apply basic drawing principles and practices.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

DFT111A - Technical Drafting I Lab

Overview

Subject code
DFT

Course Number
111A

Description
This course provides a laboratory setting to enhance basic drafting skills. Emphasis is placed on practical experiences that enhance the topics presented in DFT 111. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in DFT 111.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

DFT112 - Technical Drafting II

Overview

Subject code
DFT

Course Number
112

Description
This course provides for advanced drafting practices and procedures. Topics include detailed working drawings, hardware, fits and tolerances, assembly and sub-assembly, geometric dimensioning and tolerancing, intersections, and developments. Upon completion, students should be able to produce detailed working drawings.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

DFT112A - Technical Drafting II Lab

Overview

Subject code
DFT

Course Number
112A

Description
This course provides a laboratory setting to enhance advance drafting skills. Emphasis is placed on practical experiences that enhance the topics presented in DFT 112. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in DFT 112.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

DFT121 - Introduction to GD&T

Overview

Subject code
DFT

Course Number
121

Description
This course introduces basic geometric dimensioning and tolerancing principles. Topics include symbols, annotation, theory, and applications. Upon completion, students should be able to interpret and apply basic geometric dimensioning and tolerancing principles to drawings.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

DFT151 - CAD I

Overview

Subject code
DFT

Course Number
151

Description
This course introduces CAD software as a drawing tool. Topics include drawing, editing, file management, and plotting. Upon completion, students should be able to produce and plot a CAD drawing.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

DFT152 - CAD II

Overview

Subject code
DFT

Course Number
152

Description
This course introduces extended CAD applications. Emphasis is placed upon intermediate applications of CAD skills. Upon completion, students should be able to use extended CAD applications to generate and manage drawings.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

DFT153 - CAD III

Overview

Subject code
DFT

Course Number
153

Description
This course introduces advanced CAD applications. Emphasis is placed upon advanced applications of CAD skills. Upon completion, students should be able to use advanced CAD applications to generate and manage data.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

DFT154 - Introduction to Solid Modeling

Overview

Subject code
DFT

Course Number
154

Description
This course is an introduction to basic three-dimensional solid modeling and design software. Topics include basic design, creation, editing, rendering and analysis of solid models, and creation of multiview drawings. Upon completion, students should be able to use design techniques to create, edit, render and generate a multiview drawing.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

DFT170 - Engineering Graphics

Overview

Subject code
DFT

Course Number
170

Department(s)
Associate in Engineering

Description
This course introduces basic engineering graphics skills and applications. Topics include sketching, selection and use of current methods and tools, and the use of engineering graphics applications. Upon completion, students should be able to demonstrate an understanding of basic engineering graphics principles and practices.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

DFT231 - Jig & Fixture Design

Overview

Subject code
DFT

Course Number
231

Description
This course introduces the study of jigs and fixtures. Topics include different types, components, and uses of jigs and fixtures. Upon completion, students should be able to analyze, design, and complete a set of working drawings for a jig or fixture.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

DFT254 - Intermediate Solid Modeling & Rendering

Overview

Subject code
DFT

Course Number
254

Description
This course presents a continuation of basic three-dimensional solid modeling and design software. Topics include advanced study of parametric design, creation, editing, rendering and analysis of solid model assemblies, and multiview drawing generation. Upon completion, students should be able to use parametric design techniques to create and analyze the engineering design properties of a model assembly.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

DME110 - Introduction to Digital Media

Overview

Subject code
DME

Course Number
110

Department(s)
Audio and Video Production Technology

Description
This course introduces students to key concepts, technologies, and issues related to digital media. Topics include emerging standards, key technologies and related design issues, terminology, media formats, career paths, and ethical issues. Upon completion, students should be able to demonstrate the various media formats that are used in digital media technology.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

DME140 - Introduction to Audio/Video Media

Overview

Subject code
DME

Course Number
140

Department(s)
Audio and Video Production Technology

Description
This course is designed to teach students how to manipulate digital and audio content for multimedia applications. Topics include format conversion and a review of current technologies and digital formats. Upon completion, students should be able to modify existing audio and video content to meet a range of production requirements associated with digital media applications.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
3

ECO251 - Principles of Microeconomics

Overview

Subject code
ECO

Course Number
251

Department(s)
Business Administration

Description
This course introduces economic analysis of individual, business, and industry in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order to efficiently achieve economic objectives.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

ECO252 - Principles of Macroeconomics

Overview

Subject code	Course Number	Department(s)
ECO	252	Business Administration

Description

This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

EDU119 - Introduction to Early Childhood Education

Overview

Subject code	Course Number	Department(s)
EDU	119	Early Childhood Education

Description

This course introduces the foundations of culturally responsive, equitable and inclusive early childhood education, planning intentional developmentally appropriate experiences, learning activities, and teaching strategies for indoor and outdoor environments for all young children, guidance techniques, and professionalism. Topics include theoretical foundations, national early learning standards, NC Foundations for Early Learning and Development, state regulations, program types, career options, professionalism, ethical conduct, quality inclusive environments, guidance techniques, and curriculum responsive to the needs of each child/family. Upon completion, students should be able to implement developmentally appropriate environments, guidance techniques, schedules, and teaching strategies across developmental domains to support culturally, linguistically, and ability diverse children and their families in inclusive settings, and design a personal career/professional development plan.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

EDU131 - Child, Family, and Community

Overview

Subject code
EDU

Course Number
131

Department(s)
Early Childhood Education

Description
This course covers the development of partnerships among culturally, linguistically and ability diverse families, children, schools and communities through the use of evidence-based strategies. Emphasis is placed on developing skills and identifying benefits for establishing and supporting respectful relationships between diverse families, programs/ schools, and community agencies/resources reflective of the NAEYC Code of Ethical Conduct and the Code of Ethics for North Carolina Educators. Upon completion, students should be able to identify appropriate relationship building strategies between diverse families, children birth through adolescence, schools, and communities and demonstrate a variety of communication skills including appropriate use of technology to support every child.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

EDU144 - Child Development I

Overview

Subject code
EDU

Course Number
144

Description
This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

EDU145 - Child Development II

Overview

Subject code
EDU

Course Number
145

Department(s)
Early Childhood
Preschool

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

Description
This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

EDU146 - Child Guidance

Overview

Subject code	Course Number	Department(s)
EDU	146	Early Childhood Preschool

Description

This course introduces evidence-based strategies to build nurturing relationships with each child by applying principles and practical techniques to facilitate developmentally appropriate guidance. Topics include designing responsive/supportive learning environments, cultural, linguistic and socio-economic influences on behavior, appropriate expectations, the importance of communication with children/families including using technology and the use of formative assessments in establishing intentional strategies for children with unique needs. Upon completion, students should be able to demonstrate direct/indirect strategies to encourage social skills, self-regulation, emotional expression and positive behaviors while recognizing the relationship between children's social, emotional and cognitive development.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

EDU151 - Creative Activities

Overview

Subject code	Course Number	Department(s)
EDU	151	Early Childhood Education

Description

This course introduces developmentally supportive, diverse, equitable, and inclusive creative learning environments with attention to divergent thinking, creative problem-solving, evidence-based teaching practices, and open-ended learning materials and activities that align with the NC Foundations for Early Learning and Development. Emphasis is placed on best practices providing process-driven culturally diverse, learning experiences in art, music, creative movement, dance, and dramatic play integrated across all domains and academic content in indoor/outdoor environments for every young child age birth through age eight. Upon completion, students should be able to observe, examine, create, adapt, and advocate for developmentally appropriate creative learning materials, experiences, and environments for children that are culturally, linguistically, and ability diverse.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

EDU153 - Health, Safety and Nutrition

Overview

Subject code	Course Number	Department(s)
EDU	153	Early Childhood Education

Description

This course covers promoting and maintaining the health and well-being of every child. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, health benefits of active play, recognition and reporting of abuse/neglect, and state regulations. Upon completion, students should be able to apply knowledge of NC Foundations for Early Learning and Development for health, safety, nutritional needs and safe learning environments.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EDU161 - Introduction to Exceptional Children

Overview

Subject code	Course Number	Department(s)
EDU	161	Career and Technical Teacher Education

Description

This course covers children with exceptionalities as life long learners within the context of the community, school and family. Emphasis is placed on inclusion, legal, social/political, environmental, and cultural issues relating to the teaching of children with exceptionalities. Upon completion, students should be able to demonstrate knowledge of identification processes, inclusive techniques, and professional practices and attitudes.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EDU163 - Classroom Management and Instruction

Overview

Subject code
EDU

Course Number
163

Description

This course examines classroom management and evidence-based instructional strategies that create supportive learning environments to provide culturally, linguistically and developmentally appropriate guidance for school-age populations. Topics include classroom management and organization, teaching strategies, individual student differences and learning styles, ongoing systematic observation, and developmentally appropriate classroom guidance techniques. Upon completion, student should be able to utilize developmentally appropriate behavior management, utilize high-quality instructional strategies that enhance the teaching/learning process and promote students' academic success.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

EDU175 - Introduction to Trade and Industrial Education

Overview

Subject code
EDU

Course Number
175

Department(s)
Career and Technical Teacher Education

Description

This course introduces the philosophy, scope, and objectives of industrial education. Topics include the development of industrial education, employment opportunities, current events, current practices, and emerging trends. Upon completion, students should be able to describe the history, identify current practices, and describe current trends in industrial education.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

EDU176 - Occupational Analysis and Course Development

Overview

Subject code	Course Number	Department(s)
EDU	176	Career and Technical Teacher Education

Description

This course covers the principles and techniques of analyzing occupations to select suitable competencies and teaching methods for learning activities. Topics include occupational analysis, instructional methods, competency identification, and curriculum writing. Upon completion, students should be able to identify competencies, organize instructional materials, and select appropriate instructional methods.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EDU177 - Instructional Methods

Overview

Subject code	Course Number	Department(s)
EDU	177	Career and Technical Teacher Education

Description

This course covers instructional methods in technical education with emphasis on competency-based instruction. Topics include writing objectives, industrial methods, and determining learning styles. Upon completion, students should be able to select and demonstrate the use of a variety of instructional methods.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EDU179 - Vocational Student Organizations

Overview

Subject code	Course Number	Department(s)
EDU	179	Career and Technical Teacher Education

Description

This course covers planning and organizing vocational youth clubs by understanding the structure and operating procedures to use club activities for personal and professional growth. Topics include self-assessment to set goals, club structure, election and installation of officers, club activities, function of committees, running meetings, contest preparation, and leadership skills. Upon completion students should be able to set personal goals, outline club structure, elect and install officers.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

EDU184 - Early Childhood Introductory Practicum

Overview

Subject code	Course Number	Department(s)
EDU	184	Early Childhood Education

Description

This course introduces students to early childhood settings and applying skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on observing children, assisting in the implementation of developmentally appropriate, culturally responsive, equitable, and ability diverse activities in indoor/outdoor environments for young children, supporting/engaging families, and modeling reflective/professional practices based on national/state guidelines. Upon completion, students should be able to implement respectful/reciprocal relationships with children and families, design, implement, and adapt developmentally appropriate activities, plans, and daily routines that align with NC Foundations for Early Learning and Development and demonstrate ethical/professional behaviors as indicated by assignments and onsite/virtual faculty assessments.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

EDU185 - Cognitive and Language Activities

Overview

Subject code	Course Number	Department(s)
EDU	185	Early Childhood Education

Description

This course covers methods of developing cognitive and language/communication skills in children. Emphasis is placed on planning the basic components of language and cognitive processes in developing curriculum activities. Upon completion, students should be able to identify, plan, select materials and equipment, and implement and evaluate developmentally appropriate curriculum activities.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EDU187 - Teaching and Learning for All

Overview

Subject code	Course Number	Department(s)
EDU	187	Associate in Arts

Description

This course introduces students to knowledge, concepts, and best practices needed to provide developmentally appropriate, effective, inclusive, and culturally responsive educational experiences in the classroom.

Topics include growth and development, learning theory, student motivation, teaching diverse learners, classroom management, inclusive environments, student-centered practices, instructional strategies, teaching methodologies, observation/assessment techniques, educational planning, reflective practice, collaboration, cultural competence, ethics, professionalism, and leadership.

Upon completion, students should be able to identify the knowledge, skills, roles, and responsibilities of an effective educator as defined by state and national professional teaching standards.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

EDU214 - Early Childhood Intermediate Practicum

Overview

Subject code
EDU

Course Number
214

Department(s)
Early Childhood Education

Description
This course is designed to allow students to apply skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on observing children and assisting with the implementation of developmentally appropriate activities and environments for all children; modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate plans/ assessments, appropriate guidance techniques and ethical/professional behaviors as indicated by assignments and onsite faculty visits.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
4

EDU216 - Foundations of Education

Overview

Subject code
EDU

Course Number
216

Description
This course introduces the examination of the American educational systems and the teaching profession. Topics include the historical and philosophical influences on education, various perspectives on educational issues, and experiences in birth through grade 12 classrooms. Upon completion, students should be able to reflect on classroom observations, analyze the different educational approaches, including classical/traditional and progressive, and have knowledge of the various roles of educational systems at the federal, state and local level.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

EDU221 - Children With Exceptionalities

Overview

Subject code
EDU

Course Number
221

Description
This course covers atypical patterns of child development, inclusive/ diverse settings, evidenced-based educational/family plans, differentiated instruction, adaptive materials, and assistive technology. Emphasis is placed on the characteristics of exceptionalities and delays, early intervention/ special education, transitions, observation, developmental screening, formative assessment of children, and collaborating with families and community partners. Upon completion, students should be able to recognize diverse abilities, describe the referral process, identify community resources, explain the importance of collaboration with families/ professionals, and develop appropriate strategies/ adaptations to support children in all environments with best practices as defined by

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

laws, policies and the NC Foundations for Early Learning and Development.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

EDU234 - Infants, Toddlers, and Twos

Overview

Subject code	Course Number	Department(s)
EDU	234	Infant/Toddler Care (Certificate)

Description
This course covers the development of high-quality, individualized, responsive/engaging relationships and experiences for infants, toddlers, and twos. Emphasis is placed on typical and atypical child development, working with diverse families to provide positive, supportive, and engaging early learning activities and interactions through field experiences and the application of the NC Foundations for Early Learning and Development. Upon completion, students should be able to demonstrate responsive curriculum planning, respectful relationships and exposure to a variety of developmentally appropriate experiences/ materials that support a foundation for healthy development and growth of culturally, linguistically and ability diverse children birth to 36 months.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
3

EDU243 - Learning Theory

Overview

Subject code	Course Number	Department(s)
EDU	243	Career and Technical Teacher Education

Description

This course provides an introduction to learning theory, various styles of learning, and motivational factors involved in the learning process. Emphasis is placed on the development of cognitive skills using the eight types of intelligence and applying these to practical classroom situations. Upon completion, students should be able to describe theories and styles of learning and discuss the relationship between different types of intelligence to learning motivation.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

EDU244 - Human Growth and Development

Overview

Subject code	Course Number	Department(s)
EDU	244	Career and Technical Teacher Education

Description

This course introduces theories and ages and stages related to human growth and development from birth through adolescence. Emphasis is placed on development through the stages of a child's life in the areas of physical, emotional, social, intellectual, and moral development. Upon completion, students should be able to identify and describe milestones of each stage in all areas of development and discuss factors that influence growth.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

EDU250 - Teacher Licensure Preparation

Overview

Subject code	Course Number	Department(s)
EDU	250	Early Childhood Education

Description

This course provides information and strategies necessary for transfer to a teacher licensure program at a senior institution. Topics include entry level teacher licensure exam preparation, performance based assessment systems, requirements for entry into teacher education programs, the process to become a licensed teacher in North Carolina, and professionalism including expectations within the field of education. Upon completion, students should be able to utilize educational terminology and demonstrate knowledge of teacher licensure processes including exam preparation, technology based portfolio assessment, and secondary admissions processes to the school of education at a senior institution.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

EDU252 - Math and Science Activities

Overview

Subject code	Course Number
EDU	252

Description

This course introduces discovery experiences in math and science. Topics include concepts, facts, phenomena, and skills in each area. Upon completion, students should be able to identify, plan, select materials and equipment, and implement and evaluate developmentally appropriate curriculum materials.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EDU254 - Music and Movement for Children

Overview

Subject code
EDU

Course Number
254

Description
This course covers the use of music and creative movement for children. Topics include a general survey of the basic elements of music and planning, designing, and implementing music and movement experiences for creative learning. Upon completion, students should be able to use voice and various musical instruments to provide musical and movement activities for children.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

EDU259 - Curriculum Planning

Overview

Subject code
EDU

Course Number
259

Description
This course is designed to focus on using content knowledge to build effective developmentally appropriate approaches that are culturally responsive, equitable, and ability diverse for young children. Topics include components of curriculum, a variety of curriculum models, authentic observation and assessment, and planning developmentally appropriate experiences and indoor/outdoor environments aligned with the NC Foundations for Early Learning and Development. Upon completion, students should be able to understand, evaluate, and use developmentally appropriate curriculum to plan for the individual/group needs of young children.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
3

EDU261 - Early Childhood Administration I

Overview

Subject code	Course Number	Department(s)
EDU	261	Early Childhood Administration

Description

This course provides an overview of essential administrative components for managing early childhood programs, including child development, program frameworks, North Carolina child care rules and regulations, effective leadership practices, reflective supervision, and the NAEYC Code of Ethical Conduct. Emphasis is placed on personnel management, financial planning, reflective supervision strategies, child development principles, ethical decision-making, and ensuring compliance with state regulations to maintain high-quality learning environments. Upon completion, students should be able to apply program standards, manage staffing and budgets, implement reflective supervision to support professional growth, integrate child development knowledge into program planning, uphold ethical responsibilities following the NAEYC Code of Ethical Conduct, and navigate regulatory requirements to support successful early childhood program operations.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

EDU262 - Early Childhood Administration II

Overview

Subject code	Course Number	Department(s)
EDU	262	Early Childhood Administration

Description

This course is designed to prepare students for leadership roles in licensed child care facilities in North Carolina by focusing on curriculum development, program assessment, and resource management for centers and families. Emphasis is place on best practices in early childhood curriculum, quality improvement strategies, advocacy, and leadership in early learning environments. Upon completion, students should be able to implement developmentally appropriate curriculum, assess program effectiveness, support families with relevant resources, and advocate for policies that enhance early childhood education and program quality.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

EDU271 - Educational Technology

Overview

Subject code
EDU

Course Number
271

Description
This course introduces the appropriate and ethical use of technology that is inclusive of digital and analog materials/tools to enhance teaching and learning in all educational settings. Emphasis is placed on the developmentally appropriate use of technology with children, ethical issues, digital citizenship, instructional strategies, assistive technology, and the use of technology for professional development and communication with families. Upon completion, student should be able to demonstrate professional and ethical implementation of various modes of technology in culturally responsive and equitable ways to support diverse children, families and communities.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
3

EDU279 - Literacy Development and Instruction

Overview

Subject code
EDU

Course Number
279

Department(s)
Early Childhood Education

Description
This course is designed to provide students with concepts and skills of literacy development, instructional methods/materials and assessment techniques needed to provide scientifically-based, systematic reading and writing instruction into educational practice.

Topics include literacy concepts, reading and writing development, developmentally appropriate pedagogy, culturally-responsive instruction, standards-based outcomes, lesson planning, formative/summative assessment, recognizing reading difficulties, research-based interventions, authentic learning experiences, classroom implementation, and reflective practice.

Upon completion, students should be able to plan, implement, assess, evaluate, and demonstrate developmentally appropriate literacy instruction aligned to the NC Standard Course of Study and other state and national standards.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
4

EDU280 - Language and Literacy Experiences

Overview

Subject code	Course Number	Department(s)
EDU	280	Early Childhood Education

Description

This course provides evidence-based strategies for enhancing language and literacy experiences that align with NC Foundations for Early Learning and Development. Topics include developmental sequences for children's emergent receptive and expressive language, print concepts, appropriate observations/assessments, literacy enriched environments, quality selection of diverse literature, interactive media, and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate language and literacy experiences for children who are culturally, linguistically and ability diverse.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EDU281 - Instructional Strategies in Reading and Writing

Overview

Subject code	Course Number	Department(s)
EDU	281	Career and Technical Teacher Education

Description

This course covers concepts, resources, and methods for teaching reading and writing to elementary through middle-grade children. Topics include the importance of literacy, learning styles, skills assessment, various reading and writing approaches and instructional strategies. Upon completion, students should be able to assess, plan, implement and evaluate school-age literacy experiences as related to the North Carolina Standard Course of Study.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EDU284 - Early Childhood Capstone Practicum

Overview

Subject code	Course Number	Department(s)
EDU	284	Early Childhood Education

Description

This course is designed to allow students to demonstrate acquired skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/engaging families; and modeling reflective and professional practices based on national and state guidelines. Upon completion, students should be able to apply NC Foundations for Early Learning and Development to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors, including the use of appropriate technology, as indicated by assignments and onsite faculty assessments.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

EDU289 - Advanced Issues/ School Age

Overview

Subject code	Course Number
EDU	289

Description

This course covers advanced topics and issues that relate to school-age programs. Emphasis is placed on current advocacy issues, emerging technology, professional growth, ethics, and organizations for providers/teachers working with school-age populations. Upon completion, students should be able to list, discuss, and explain advanced current topics and issues surrounding school-aged populations.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

EGR110 - Introduction to Engineering Technology

Overview

Subject code	Course Number	Department(s)
EGR	110	Electronics Engineering Technology

Description

This course introduces general topics relevant to engineering technology. Topics include career assessment, professional ethics, critical thinking and problem solving, usage of college resources for study and research, and using tools for engineering computations. Upon completion, students should be able to choose a career option in engineering technology and utilize college resources to meet their educational goals.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

EGR125 - Applications Software for Tech

Overview

Subject code	Course Number	Department(s)
EGR	125	Electronics Engineering Technology

Description

This course introduces personal computer software and teaches students how to customize the software for technical applications. Emphasis is placed on the use of common office applications software programs such as spreadsheets, word processing, graphics, and internet access. Upon completion, students should be able to demonstrate competency in using applications software to solve technical problems and communicate the results in text and graphical formats.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

EGR150 - Introduction to Engineering

Overview

Subject code
EGR

Course Number
150

Department(s)
Associate in Engineering

Description
This course is an overview of the engineering profession. Topics include goal setting and career assessment, ethics, public safety, the engineering method and design process, written and oral communication, interpersonal skills and team building, and computer applications. Upon completion, students should be able to understand the engineering process, the engineering profession, and utilize college resources to meet their educational goals.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

EGR250 - Statics/Strength of Mater

Overview

Subject code
EGR

Course Number
250

Department(s)
Mechanical Engineering Technology

Description
This course includes vector analysis, equilibrium of force systems, friction, sectional properties, stress/strain, and deformation. Topics include resultants and components of forces, moments and couples, free-body diagrams, shear and moment diagrams, trusses, frames, beams, columns, connections, and combined stresses. Upon completion, students should be able to analyze simple structures.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
5

EGR285 - Design Project

Overview

Subject code	Course Number	Department(s)
EGR	285	Mechanical Engineering Technology

Description

This course provides the opportunity to design an instructor-approved project using previously acquired skills. Emphasis is placed on selection, proposal, design, testing, and documentation of the approved project. Upon completion, students should be able to present and demonstrate projects.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

ELC111 - Introduction to Electricity

Overview

Subject code	Course Number	Department(s)
ELC	111	Electrical Systems Technology

Description

This course introduces the fundamental concepts of electricity and test equipment to non-electrical/ electronics majors. Topics include basic DC and AC principles (voltage, resistance, current, impedance); components (resistors, inductors, and capacitors); power; and operation of test equipment. Upon completion, students should be able to construct and analyze simple DC and AC circuits using electrical test equipment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ELC112 - DC/AC Electricity

Overview

Subject code	Course Number	Department(s)
ELC	112	Electrical Systems Technology

Description

This course introduces the fundamental concepts of and computations related to DC/AC electricity. Emphasis is placed on DC/AC circuits, components, operation of test equipment; and other related topics. Upon completion, students should be able to construct, verify, troubleshoot, and repair DC/AC circuits.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
5

ELC113 - Residential Wiring

Overview

Subject code	Course Number	Department(s)
ELC	113	Electrical Systems Technology

Description

This course introduces the care/usage of tools and materials used in residential electrical installations and the requirements of the National Electrical Code. Topics include NEC, electrical safety, and electrical print reading; planning, layout; and installation of electrical distribution equipment; lighting; overcurrent protection; conductors; branch circuits; and conduits. Upon completion, students should be able to properly install conduits, wiring, and electrical distribution equipment associated with residential electrical installations.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

ELC114 - Commercial Wiring

Overview

Subject code	Course Number	Department(s)
ELC	114	Electrical Systems Technology

Description

This course provides instruction in the application of electrical tools, materials, and test equipment associated with commercial electrical installations. Topics include the NEC; safety; electrical blueprints; planning, layout, and installation of equipment and conduits; and wiring devices such as panels and overcurrent devices. Upon completion, students should be able to properly install equipment and conduit associated with commercial electrical installations.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

ELC115 - Industrial Wiring

Overview

Subject code	Course Number	Department(s)
ELC	115	Electrical Systems Technology

Description

This course covers layout, planning, and installation of wiring systems in industrial facilities. Emphasis is placed on industrial wiring methods and materials. Upon completion, students should be able to install industrial systems and equipment.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

ELC117 - Motors and Controls

Overview

Subject code	Course Number	Department(s)
ELC	117	Electrical Systems Technology

Description

This course introduces the fundamental concepts of motors and motor controls. Topics include ladder diagrams, pilot devices, contactors, motor starters, motors, and other control devices. Upon completion, students should be able to properly select, connect, and troubleshoot motors and control circuits.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ELC118 - National Electrical Code

Overview

Subject code	Course Number	Department(s)
ELC	118	Electrical Systems Technology

Description

This course covers the use of the current National Electrical Code. Topics include the NEC history, wiring methods, overcurrent protection, materials, and other related topics. Upon completion, students should be able to effectively use the NEC.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

ELC119 - NEC Calculations

Overview

Subject code	Course Number	Department(s)
ELC	119	Electrical Systems Technology

Description

This course covers branch circuit, feeder, and service calculations. Emphasis is placed on sections of the National Electrical Code related to calculations. Upon completion, students should be able to use appropriate code sections to size wire, conduit, and overcurrent devices for branch circuits, feeders, and service.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

ELC127 - Software for Technicians

Overview

Subject code	Course Number	Department(s)
ELC	127	Electrical Systems Technology

Description

This course introduces computer software which can be used to solve electrical/electronics problems. Topics include electrical/electronics calculations and applications. Upon completion, students should be able to utilize a personal computer for electrical/electronics- related applications.

Course software requires a Windows based computer.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

ELC128 - Introduction to Programmable Logic Controller

Overview

Subject code	Course Number	Department(s)
ELC	128	Electrical Systems Technology

Description

This course introduces the programmable logic controller (PLC) and its associated applications. Topics include ladder logic diagrams, input/output modules, power supplies, surge protection, selection/ installation of controllers, and interfacing of controllers with equipment. Upon completion, students should be able to understand basic PLC systems and create simple programs.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ELC132 - Electrical Drawings

Overview

Subject code	Course Number	Department(s)
ELC	132	Electrical Systems Technology

Description

This course introduces the technical documentation that is typically found or used in the industrial environment. Topics include interpretation of service manuals, freehand sketching, orthographic views and dimensions, and print reading. Upon completion, students should be able to interpret technical documents and prints and use basic drafting skills to prepare usable field drawings.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

ELC134 - Transformer Applications

Overview

Subject code	Course Number	Department(s)
ELC	134	Electrical Systems Technology

Description

This course covers single- and three-phase transformer applications as found in industrial/ commercial buildings and machinery. Topics include transformer principles, single- and three-phase calculations, and connections. Upon completion, students should be able to understand single-and three-phase transformers, make transformer connections, and make calculations.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

ELC135 - Electrical Machines

Overview

Subject code	Course Number	Department(s)
ELC	135	Electrical Systems Technology

Description

This course covers magnetic circuits, transformers, DC/AC machines, and the three-phase circuit fundamentals including power factor. Topics include magnetic terms and calculations, transformer calculations based on primary or secondary equivalent circuits, and regulation and efficiency calculations. Upon completion, students should be able to perform regulation and efficiency calculations for DC/AC machine circuits.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ELC138 - DC Circuit Analysis

Overview

Subject code	Course Number	Department(s)
ELC	138	Computer Engineering Technology

Description

This course introduces DC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include DC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret circuit schematics; design, construct, and analyze DC circuits; and properly use test equipment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ELC139 - AC Circuit Analysis

Overview

Subject code	Course Number	Department(s)
ELC	139	Electrical Systems Technology

Description

This course introduces AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include AC voltages, circuit analysis laws and theorems, reactive components and circuits, transformers, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret AC circuit schematics; analyze and troubleshoot AC circuits; and properly use test equipment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ELC213 - Instrumentation

Overview

Subject code	Course Number	Department(s)
ELC	213	Mechatronics Engineering Technology

Description

This course covers the fundamentals of instrumentation used in industry. Emphasis is placed on electric, electronic, and other instruments. Upon completion, students should be able to install, maintain, and calibrate instrumentation.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

ELC220 - Photovoltaic System Technology

Overview

Subject code	Course Number	Department(s)
ELC	220	Electrical Systems Technology

Description

This course introduces the concepts, tools, techniques, and materials needed to understand systems that convert solar energy into electricity with photovoltaic (pv) technologies. Topics include site analysis for system integration, building codes, and advances in photovoltaic technology. Upon completion, students should be able to demonstrate an understanding of the principles of photovoltaic technology and current applications.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ELC221 - Advanced Photovoltaic System Designs

Overview

Subject code	Course Number	Department(s)
ELC	221	Electrical Systems Technology

Description

This course introduces specific elements in photovoltaic (pv) systems technologies including efficiency, modules, inverters, charge controllers, batteries, and system installation. Topics include National Electrical Code (NEC), electrical specifications, photovoltaic system components, array design and power integration requirements that combine to form a unified structure. Upon completion, students should be able to demonstrate an understanding of various photovoltaic designs and proper installation of NEC compliant solar electric power systems.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ELC228 - Programmable Logic Controllers Applications

Overview

Subject code	Course Number	Department(s)
ELC	228	Electrical Systems Technology

Description

This course covers programming and applications of programmable logic controllers. Emphasis is placed on programming techniques, networking, specialty I/O modules, and system troubleshooting. Upon completion, students should be able to specify, implement, and maintain complex PLC controlled systems.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ELC229 - Applications Project

Overview

Subject code	Course Number	Department(s)
ELC	229	Electrical Systems Technology

Description

This course provides an individual and/or integrated team approach to a practical project as approved by the instructor. Topics include project selection and planning, implementation and testing, and a final presentation. Upon completion, students should be able to plan and implement an applications-oriented project.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

ELC231 - Electric Power Systems

Overview

Subject code	Course Number	Department(s)
ELC	231	Electronics Engineering Technology

Description

This course covers the basic principles of electric power systems, including transmission lines, generator and transformer characteristics, and fault detection and correction. Emphasis is placed on line diagrams and per unit calculations for circuit performance analysis in regards to voltage regulation, power factor, and protection devices. Upon completion, students should be able to analyze simple distribution subsystems, calculate fault current, and compare different types and sizes of circuit protection devices.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ELC233 - Energy Management

Overview

Subject code	Course Number	Department(s)
ELC	233	Electronics Engineering Technology

Description

This course covers energy management principles and techniques typical of those found in industry and commercial facilities, including load control and peak demand reduction systems. Topics include load and peak demand calculations, load shedding, load balance and power factor, priority scheduling, remote sensing and control, and supplementary/alternative energy sources. Upon completion, students should be able to determine energy management parameters, calculate demand and energy use, propose energy management procedures, and implement alternative energy sources.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ELN131 - Analog Electronics I

Overview

Subject code	Course Number	Department(s)
ELN	131	Electronics Engineering Technology

Description

This course introduces the characteristics and applications of semiconductor devices and circuits. Emphasis is placed on analysis, selection, biasing, and applications. Upon completion, students should be able to construct, analyze, verify, and troubleshoot analog circuits using appropriate techniques and test equipment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ELN133 - Digital Electronics

Overview

Subject code	Course Number	Department(s)
ELN	133	Electronics Engineering Technology

Description

This course covers combinational and sequential logic circuits. Topics include number systems, Boolean algebra, logic families, medium scale integration (MSI) and large scale integration (LSI) circuits, analog to digital (AD) and digital to analog (DA) conversion, and other related topics. Upon completion, students should be able to construct, analyze, verify, and troubleshoot digital circuits using appropriate techniques and test equipment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ELN152 - Fabrication Techniques

Overview

Subject code	Course Number	Department(s)
ELN	152	Electronics Engineering Technology

Description

This course covers the fabrication methods required to create a prototype product from the initial circuit design. Topics include CAD, layout, sheet metal working, component selection, PC board layout and construction, reverse engineering, soldering, and other related topics. Upon completion, students should be able to design and construct an electronic product with all its associated documentation.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

ELN229 - Industrial Electronics

Overview

Subject code	Course Number	Department(s)
ELN	229	Electrical Systems Technology

Description

This course covers semiconductor devices used in industrial applications. Topics include the basic theory, application, and operating characteristics of semiconductor devices. Upon completion, students should be able to construct and/or troubleshoot these devices for proper operation in an industrial electronic circuit.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ELN231 - Industrial Controls

Overview

Subject code	Course Number	Department(s)
ELN	231	Electrical Systems Technology

Description

This course introduces the fundamental concepts of control of rotating machinery and associated peripheral devices. Topics include rotating machine theory, ladder logic, electromechanical and solid state relays, motor controls, pilot devices, three-phase power systems, and other related topics. Upon completion, students should be able to interpret schematics and demonstrate an understanding of electromechanical and electronic control of rotating machinery.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ELN232 - Introduction to Microprocessors

Overview

Subject code	Course Number	Department(s)
ELN	232	Electronics Engineering Technology

Description

This course introduces microprocessor architecture and microcomputer systems including memory and input/output interfacing. Topics include low-level language programming, bus architecture, I/O systems, memory systems, interrupts, and other related topics. Upon completion, students should be able to interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and test equipment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ELN233 - Microprocessor Systems

Overview

Subject code	Course Number	Department(s)
ELN	233	Computer Engineering Technology

Description

This course covers the application and design of microprocessor control systems. Topics include control and interfacing of systems using AD/DA, serial/parallel I/O, communication protocols, and other related applications. Upon completion, students should be able to design, construct, program, verify, analyze, and troubleshoot fundamental microprocessor interface and control circuits using related equipment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

ELN237 - Local Area Networks

Overview

Subject code	Course Number	Department(s)
ELN	237	Electrical Systems Technology

Description

This course introduces the fundamentals of local area networks and their operation. Topics include the characteristics of network topologies, system hardware, system configuration, installation and operation of the LAN. Upon completion, students should be able to install and maintain a local area network.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ELN249 - Digital Communication

Overview

Subject code	Course Number	Department(s)
ELN	249	Electronics Engineering Technology

Description

This course covers the core processes and applications associated with digital communication techniques. Topics include the characteristics of RF circuits, modulation, transmitters and receivers, electromagnetic transmission, antennas, and related applications. Upon completion, students should be able to demonstrate knowledge of the concepts associated with digital communication systems.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EMS110 - EMT

Overview

Subject code	Course Number	Department(s)
EMS	110	Emergency Medical Science

Description

This course introduces basic emergency medical care. Topics include preparatory, airway, patient assessment, medical emergencies, trauma, infants and children, and operations. Upon completion, students should be able to demonstrate the knowledge and skills necessary to achieve North Carolina State or National Registry EMT certification.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
9

EMS122 - EMS Clinical Practicum I

Overview

Subject code	Course Number	Department(s)
EMS	122	Emergency Medical Science

Description

This course provides the introductory hospital clinical experience for the paramedic student. Emphasis is placed on mastering fundamental paramedic skills. Upon completion, students should be able to demonstrate competency with fundamental paramedic level skills.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

EMS125 - EMS Instructor Methodology

Overview

Subject code	Course Number	Department(s)
EMS	125	Emergency Medical Science

Description

This course covers the information needed to develop and instruct EMS courses. Topics include instructional methods, lesson plan development, time management skills, and theories of adult learning. Upon completion, students should be able to teach EMS courses and meet the North Carolina EMS requirements for instructor methodology.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EMS130 - Pharmacology

Overview

Subject code	Course Number	Department(s)
EMS	130	Emergency Medical Science

Description

This course introduces the fundamental principles of pharmacology and medication administration and is required for paramedic certification. Topics include medical terminology, pharmacological concepts, weights, measures, drug calculations, vascular access for fluids and medication administration and legislation. Upon completion, students should be able to accurately calculate drug dosages, properly administer medications, and demonstrate general knowledge of pharmacology.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

EMS131 - Advanced Airway Management

Overview

Subject code	Course Number	Department(s)
EMS	131	Emergency Medical Science

Description

This course is designed to provide advanced airway management techniques and is required for paramedic certification. Topics must meet current guidelines for advanced airway management in the pre-hospital setting. Upon completion, students should be able to properly utilize all airway adjuncts and pharmacology associated with airway control and maintenance.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

EMS160 - Cardiology I

Overview

Subject code	Course Number	Department(s)
EMS	160	Emergency Medical Science

Description

This course introduces the study of cardiovascular emergencies and is required for paramedic certification. Topics include anatomy and physiology, pathophysiology, electrophysiology, and rhythm interpretation. Upon completion, students should be able to recognize and interpret rhythms.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EMS220 - Cardiology II

Overview

Subject code	Course Number	Department(s)
EMS	220	Emergency Medical Science

Description

This course provides an in-depth study of cardiovascular emergencies and is required for paramedic certification. Topics include assessment and treatment of cardiac emergencies, cardiac pharmacology, and patient care. Upon completion, students should be able to manage the cardiac patient.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EMS221 - EMS Clinical Practicum II

Overview

Subject code	Course Number	Department(s)
EMS	221	Emergency Medical Science

Description

This course provides clinical experiences in the hospital and/or field. Emphasis is placed on increasing the proficiency of students' skills and abilities in patient assessments and the delivery of care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

EMS231 - EMS Clinical Practicum III

Overview

Subject code	Course Number	Department(s)
EMS	231	Emergency Medical Science

Description

This course provides clinical experiences in the hospital and/or field. Emphasis is placed on enhancing the students' skills and abilities in providing advanced-level care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EMS235 - EMS Management

Overview

Subject code	Course Number	Department(s)
EMS	235	Emergency Medical Science

Description

This course stresses the principles of managing a modern emergency medical service system. Topics include structure and function of municipal governments, EMS grantsmanship, finance, regulatory agencies, system management, legal issues, and other topics relevant to the EMS manager. Upon completion, students should be able to understand the principles of managing emergency medical service delivery systems.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

EMS240 - Patients With Special Challenges

Overview

Subject code	Course Number	Department(s)
EMS	240	Emergency Medical Science

Description

This course includes concepts of crisis intervention and techniques of interacting with patients with special challenges and is required for paramedic certification. Topics include appropriate intervention and interaction for neglected, abused, terminally ill, chronically ill, technology assisted, bariatric, physically challenged, mentally challenged, or assaulted patients as well as behavioral emergencies. Upon completion, students should be able to recognize and manage the care of patients with special challenges.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

EMS241 - EMS Clinical Practicum IV

Overview

Subject code	Course Number	Department(s)
EMS	241	Emergency Medical Science

Description

This course provides clinical experiences in the hospital and/or field. Emphasis is placed on mastering the skills/competencies required of the paramedic providing advanced-level care. Upon completion, students should be able to provide advanced-level patient care as an entry-level paramedic.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

EMS250 - Medical Emergencies

Overview

Subject code	Course Number	Department(s)
EMS	250	Emergency Medical Science

Description

This course provides an in-depth study of medical conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include appropriate interventions/treatments for disorders/diseases/injuries affecting the following systems: respiratory, neurological, abdominal/ gastrointestinal, endocrine, genitourinary, musculoskeletal, and immunological as well as toxicology, infectious diseases and diseases of the eyes, ears, nose and throat. Upon completion, students should be able to recognize, assess and manage the care of frequently encountered medical conditions based upon initial patient assessment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

EMS260 - Trauma Emergencies

Overview

Subject code	Course Number	Department(s)
EMS	260	Emergency Medical Science

Description

This course provides in-depth study of trauma including pharmacological interventions for conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include an overview of thoracic, abdominal, genitourinary, orthopedic, neurological, and multi-system trauma, soft tissue trauma of the head, neck, and face as well as environmental emergencies. Upon completion, students should be able to recognize and manage trauma situations based upon patient assessment and should adhere to standards of care.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

EMS270 - Life Span Emergencies

Overview

Subject code	Course Number	Department(s)
EMS	270	Emergency Medical Science

Description

This course covers medical/ethical/legal issues and the spectrum of age-specific emergencies from conception through death required for paramedic certification. Topics include gynecological, obstetrical, neonatal, pediatric, and geriatric emergencies and pharmacological therapeutics. Upon completion, students should be able to recognize and treat age-specific emergencies.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

EMS280 - EMS Bridging Course

Overview

Subject code	Course Number	Department(s)
EMS	280	Emergency Medical Science

Description

This course is designed to provide currently credentialed state or national Paramedic students with the most current education trends in Paramedic Practice. Emphasis is placed on transitions in healthcare. Upon completion, students should be able to integrate emerging trends in pre-hospital care.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EMS285 - EMS Capstone

Overview

Subject code	Course Number	Department(s)
EMS	285	Emergency Medical Science

Description

This course provides an opportunity to demonstrate problem-solving skills as a team leader in simulated patient scenarios and is required for paramedic certification. Emphasis is placed on critical thinking, integration of didactic and psychomotor skills, and effective performance in simulated emergency situations. Upon completion, students should be able to recognize and appropriately respond to a variety of EMS-related events.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

ENG025 - College English Skills

Overview

Subject code	Course Number
ENG	025

Description

This course provides the skills necessary for success in college English courses. Topics include reading and writing processes and strategies, such as critical thinking, text analysis, idea development, and application of writing conventions. Upon completion, students should be able to analyze readings and produce unified, coherent, well-developed paragraphs and essays using appropriate document design and standard written English while developing positive academic habits, learning strategies, and a growth mindset.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

ENG045 - English Skills Support

Overview

Subject code	Course Number	Department(s)
ENG	045	Developmental Education

Description

This course provides academic support for the successful completion of gateway English courses by supplementing and reinforcing classroom instruction. Emphasis is placed on developing a growth mindset, expanding skills in active reading and writing processes, applying editing and revision strategies, exercising standard writing conventions through contextualized instruction, and ethically using appropriate technology when reading and writing. Upon completion, students should be able to apply active reading strategies to college-level texts and produce unified, well-developed essays using standard written English.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

ENG111 - Writing and Inquiry

Overview

Subject code	Course Number	Department(s)
ENG	111	Associate in Arts

Description

This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Complete ANY of the following Courses:

- ENG045 - English Skills Support

ENG112 - Writing and Research in the Disciplines

Overview

Subject code
ENG

Course Number
112

Department(s)
Associate in Arts

Description
This course, the second in a series of two, introduces research techniques, documentation styles, and writing strategies. Emphasis is placed on analyzing information and ideas and incorporating research findings into documented writing and research projects. Upon completion, students should be able to evaluate and synthesize information from primary and secondary sources using documentation appropriate to various disciplines.

CAA statement
This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Complete ALL of the following Courses:

- ENG111 - Writing and Inquiry

ENG231 - American Literature I

Overview

Subject code	Course Number	Department(s)
ENG	231	Associate in Arts

Description

This course covers selected works in American literature from its beginnings to 1865. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ENG232 - American Literature II

Overview

Subject code	Course Number	Department(s)
ENG	232	Associate in Arts

Description

This course covers selected works in American literature from 1865 to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ENG241 - British Literature I

Overview

Subject code	Course Number	Department(s)
ENG	241	Associate in Arts

Description

This course covers selected works in British literature from its beginnings to the Romantic Period. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts.

CAA statement

This course has been approved for transfer under the ComprehensiveArticulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts. (

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ENG242 - British Literature II

Overview

Subject code	Course Number	Department(s)
ENG	242	Associate in Arts

Description

This course covers selected works in British literature from the Romantic Period to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ENG261 - World Literature I

Overview

Subject code	Course Number	Department(s)
ENG	261	Associate in Arts

Description

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from their literary beginnings through the seventeenth century. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

ENG262 - World Literature II

Overview

Subject code	Course Number	Department(s)
ENG	262	Associate in Arts

Description

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from the eighteenth century to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

EQU110 - Introduction to Therapeutic Horsemanship

Overview

Subject code	Course Number	Department(s)
EQU	110	Equine Business

Description

This course provides an introduction to therapeutic horsemanship. Topics include the history of equine-assisted activities and therapies (EAAT), the use of the horse in EAAT, an overview of common cognitive and physical disabilities, careers with equine-assisted activities with an overview on instructor certification. Upon completion, students should be able to explain the use of the horse in EAAT, identify careers in therapeutic horsemanship, and have the knowledge in credentialing required to be a therapeutic instructor.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

EQU111 - Horse Science I

Overview

Subject code	Course Number	Department(s)
EQU	111	Equine Business

Description

This course provides students with the foundational knowledge, theory, practical application and work ethic needed to complete their other equine coursework. Topics include basics of equine evolution, nature of the horse, equine behavior, bandaging, wrapping, restraints, health topics, wounds, vices, body condition scoring and work ethic. Upon completion students should be able to perform and explain basic horse husbandry and stable management practices.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
5

EQU112 - Horse Science II

Overview

Subject code	Course Number	Department(s)
EQU	112	Equine Business

Description

The course covers horse industry practices and emphasizes basic horse husbandry and stable management practices, with an emphasis on practical application. Topics include prevention, identification and treatment of diseases, injuries and treatments, lameness, parasites, common medications, and work ethic. Upon completion, students should be able to further perform horse husbandry and stable management practices and explain related theory.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
5

EQU115 - Principles of Equine Assisted Activities

Overview

Subject code	Course Number	Department(s)
EQU	115	Equine Business

Description

This course covers the principles and concepts of equine assisted activities and introduces a variety of equine assisted services that include horseback riding, driving and vaulting, and how the horse can be soothing for the human mind and body. Emphasis is placed on how interaction with the horse can be comforting for the human mind and body, the organization and administration of the program, accreditation, industry standards, selection of student, volunteers and horses. Upon completion, students should be able to identify the different forms of equine assisted activities, the benefits and contraindication of each and know the use of appropriate terminology, equipment, and activities applicable to the field.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

EQU120 - Horsemanship I

Overview

Subject code	Course Number	Department(s)
EQU	120	Equine Business

Description

This course covers fundamentals of groundwork and basic theories of horsemanship and training, with emphasis on a balanced seat, communication with, feel for and influence over the horse. Topics include horse care, equipment, position development and strengthening, show turn out, groundwork and riding theory, riding maneuvers and patterns. Upon completion, students should be able to competently perform groundwork, demonstrate a balanced position, coordinate aids to perform maneuvers and patterns, and discuss riding theory.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

EQU125 - Equine Behavior

Overview

Subject code	Course Number	Department(s)
EQU	125	Equine Business

Description

This course covers the factors affecting equine behavior. Emphasis is placed on equine instincts and the influence of genes and nutrition; their perception and response to stimuli, including sexual and reproductive behaviors; and equine communication and the nature of their social organization. Upon completion, students should be able to explain how and why behavioral problems occur and how they can be prevented; and describe different approaches to equine learning in a training environment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EQU130 - Equine Anatomy & Physiology

Overview

Subject code	Course Number	Department(s)
EQU	130	Equine Business

Description

This course covers the anatomy and physiology of various systems of the equine body. Emphasis is placed on practical application of class topics. Upon completion, students should be able to demonstrate a working understanding of equine anatomy and physiology and be able to communicate effectively with veterinarians.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EQU140 - Equine Evaluation I

Overview

Subject code	Course Number	Department(s)
EQU	140	Equine Business

Description

This course covers conformation, movement, and related anatomy, identifies characteristics of major breeds and introduces judging. Topics include breeds, colors, markings, disciplines, gaits, the relationship of form to function, the ideal structure, terminology for halter, and oral reasons. Upon completion, students should be able to demonstrate correct technique in judging halter, recognize structural faults within the horse, and present oral reason.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

EQU150 - Equine Nutrition

Overview

Subject code	Course Number	Department(s)
EQU	150	Equine Business

Description

This course studies equine nutrition and its application, including concentrates, hays, forages, and supplements. Topics include basic digestive anatomy and physiology, common feeds and supplements, nutritional needs in specific situations, and ration balancing. Upon completion, students should be able to explain feeding practices and critique rations for classifications of horses.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

EQU210 - Training the Therapeutic Horse

Overview

Subject code	Course Number	Department(s)
EQU	210	Equine Business

Description

This course covers the equine training of the therapeutic horse. Topics include evaluation, preparation and safety of the therapeutic horse; identifying and knowing the proper use of tack, equipment, and adaptive equipment; gaits, seat position, mounting/dismounting, and recognizing signs of health and wellness of the horse. Upon completion, students should be able to evaluate and train the therapeutic horse.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

EQU211 - Horse Farm Management I

Overview

Subject code	Course Number	Department(s)
EQU	211	Equine Business

Description

This course covers horse farm management practices. Emphasis is placed on facility planning, record keeping, safety, labor, maintenance, preventative medicine management, equipment operation and care, work ethic, problem solving, supervision and teamwork skills. Upon completion, students should be able to design a facility on paper and assist in the management of an equine facility and herd, including supervision.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
6

EQU212 - Horse Farm Management II

Overview

Subject code	Course Number	Department(s)
EQU	212	Equine Business

Description

This course provides an in-depth exploration of horse farm management practices and requirements for an equine business plan. Topics include insurance, liability, contracts, security, finances and bookkeeping, marketing, industry trends, types of business and business plans, operation/care of equipment, and other related topics. Upon completion, students should be able to demonstrate the skills, responsibility and work ethic necessary to manage most aspects of an equine facility and herd, including supervision.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
6

EQU215 - Equine Assisted Activities-Teaching

Overview

Subject code	Course Number	Department(s)
EQU	215	Equine Business

Description

This course introduces teaching in the equine assisted activities program. Emphasis is placed on effective communication in organizing, preparing and teaching lessons to individuals with disabilities; and assigning students, horses and volunteers. Upon completion, students should be able to assign students, horses and volunteers; train volunteers, maintain program notes and interact with parents, teachers and other professionals.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

EQU240 - Equine Evaluation II

Overview

Subject code	Course Number	Department(s)
EQU	240	Equine Business

Description

This course covers in-depth evaluation of conformation and movement, and advances judging and oral reason techniques. Topics include further development of the relationship of form to function and terminology for breed, halter, and performance specialties. Upon completion, students should be able to demonstrate correct technique in judging and placing halter and performance classes and giving oral reasons.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

EQU241 - Equine Reproduction

Overview

Subject code	Course Number	Department(s)
EQU	241	Equine Business

Description

This course covers the theory and practices associated with efficient reproduction, including mare and stallion care and management, and provides hands-on experience. Topics include anatomy and physiology, hormone cycles, fertility, infertility, heat detection, breeding methods, semen collection and evaluation, gestation, parturition, abortions, diseases, and neonatal care. Upon completion, students should be able to demonstrate and explain laboratory competencies in aspects of breeding and explain reproduction theories.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

EQU270 - Equine Business Law

Overview

Subject code	Course Number	Department(s)
EQU	270	Equine Business

Description

This course presents the legal options and responsibilities of horse businesses and equine professionals. Topics include liability, lawsuits and relevant precedents, insurance, contracts, taxes, debt collection, purchase of property, estate planning, trailering laws, and abuse and neglect. Upon completion, students should be able to discuss legal options and responsibilities and make choices based on legal options and responsibilities.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

ETR220 - Innovation and Creativity

Overview

Subject code	Course Number	Department(s)
ETR	220	Business Administration

Description

This course provides a study of developing and enhancing individual and organizational creativity and innovation. Topics include that innovation needs to be applied to products, services, and processes to increase competitive advantages and add value to businesses. Upon completion, students should be able to apply innovation and creativity principles in the work place.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

EUS110 - Introduction to Electric Utility Industry

Overview

Subject code	Course Number	Department(s)
EUS	110	Electrical Systems Technology

Description

This course provides the student with an overview of the electric (power) utility industry. Topics include electric utility regulation and its scope, regulatory agencies and codes, electrical safety, electric system overview, electric generation, electric transmission, and electric distribution. Upon completion, students should be able to understand the need for electric utilities, their structure, and regulatory requirements on electric utilities.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

EUS130 - Electric Utility Print Reading

Overview

Subject code	Course Number	Department(s)
EUS	130	Electronics Engineering Technology

Description

This course introduces the basic principles of reading electrical drawings used in the utility industry. Topics include functional diagrams, AC and DC control schematics, wiring diagrams, control wiring diagrams, and logic diagrams. Upon completion, the student should be able to explain the purpose and function of the various circuits and components in each type of electrical drawing.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

FRE111 - Elementary French I

Overview

Subject code	Course Number	Department(s)
FRE	111	Associate in Arts

Description

This course introduces the fundamental elements of the French language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

FRE112 - Elementary French II

Overview

Subject code	Course Number	Department(s)
FRE	112	Associate in Arts

Description

This course is a continuation of FRE 111 focusing on the fundamental elements of the French language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

FRE181 - French Lab 1

Overview

Subject code	Course Number	Department(s)
FRE	181	Associate in Arts

Description

This course provides an opportunity to enhance acquisition of the fundamental elements of the French language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
1

FRE182 - French Lab 2

Overview

Subject code	Course Number	Department(s)
FRE	182	Associate in Arts

Description

This course provides an opportunity to enhance acquisition of the fundamental elements of the French language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate cultural awareness.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
1

FVP227 - Multimedia Production

Overview

Subject code	Course Number	Department(s)
FVP	227	Audio and Video Production Technology

Description

This course covers technical terms used in the multimedia industry and introduces skills related to digital manipulation of audio and video materials. Emphasis is placed on technical terms used in multimedia work and integration of sound, video, graphics, and text into a single production. Upon completion, students should be able to define technical terms in multimedia work and work with a variety of computer hardware and software.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

GEL111 - Geology

Overview

Subject code	Course Number	Department(s)
GEL	111	Associate in Science

Description

This course introduces basic landforms and geological processes. Topics include rocks, minerals, volcanoes, fluvial processes, geological history, plate tectonics, glaciers, and coastal dynamics. Upon completion, students should be able to describe basic geological processes that shape the earth.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

GEO111 - World Regional Geography

Overview

Subject code	Course Number	Department(s)
GEO	111	Associate in Arts

Description

This course introduces the regional concept which emphasizes the spatial association of people and their environment. Emphasis is placed on the physical, cultural, and economic systems that interact to produce the distinct regions of the earth. Upon completion, students should be able to describe variations in physical and cultural features of a region and demonstrate an understanding of their functional relationships.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

GRD110 - Typography I

Overview

Subject code	Course Number	Department(s)
GRD	110	Graphic Design

Description

This course introduces the history and mechanics of type and its application to layout and design. Topics include typographic fundamentals, anatomy, measurements, composition, identification, and terminology. Upon completion, students should be able to demonstrate proficiency in design application, analysis, specification, and creation of typographic elements.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

GRD121 - Drawing Fundamentals I

Overview

Subject code	Course Number	Department(s)
GRD	121	Graphic Design

Description

This course introduces skills using basic drawing techniques and media in graphic design. Emphasis is placed on using design principles, media applications, spatial considerations, and drawing styles. Upon completion, students should be able to use drawing for conceptualization, visual communication, and graphic simplification.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

GRD131 - Illustration I

Overview

Subject code	Course Number	Department(s)
GRD	131	Graphic Design

Description

This course introduces the application of rendering techniques to create illustrations in traditional and/or digital media. Emphasis is placed on appropriate media selection and using various techniques and methods to solve design problems. Upon completion, students should be able to produce illustrations from conception through finished artwork.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

GRD132 - Illustration II

Overview

Subject code	Course Number	Department(s)
GRD	132	Graphic Design

Description

This course is designed to be a continuation of GRD 131. Emphasis is placed on intermediate techniques and methods to create design solutions. Upon completion, students should be able to demonstrate increased proficiency in creating illustrations from conceptualization through finished artwork.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

GRD133 - Illustration III

Overview

Subject code	Course Number	Department(s)
GRD	133	Graphic Design

Description

This course is designed to be a continuation of GRD 132. Emphasis is placed on advanced techniques, and methods to create design solutions. Upon completion, students should be able demonstrate increased proficiency in creating illustrations from conceptualization through finished artwork.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

GRD141 - Graphic Design I

Overview

Subject code	Course Number	Department(s)
GRD	141	Graphic Design

Description

This course introduces the conceptualization process used in visual problem solving. Emphasis is placed on learning the principles of design and on the manipulation and organization of elements. Upon completion, students should be able to apply design principles to projects.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

GRD142 - Graphic Design II

Overview

Subject code	Course Number	Department(s)
GRD	142	Graphic Design

Description

This course covers the application of graphic design principles. Topics include creation of various designs, such as branding, advertisements, and publication design. Upon completion, students should be able to apply design principles and develop design solutions.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

GRD151 - Computer Design Basics

Overview

Subject code	Course Number	Department(s)
GRD	151	Graphic Design

Description

This course introduces software applications for graphic design. Emphasis is placed on utilizing digital tools to generate design solutions. Upon completion, students should be able to use industry-standard software as a creative tool.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

GRD152 - Computer Design Technology

Overview

Subject code	Course Number	Department(s)
GRD	152	Graphic Design

Description

This course covers complex design problems utilizing various design and drawing software applications. Topics include the use of typography, image, and organization to communicate a message. Upon completion, students should be able to use appropriate industry-standard software.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

GRD153 - Computer Design Solutions

Overview

Subject code	Course Number	Department(s)
GRD	153	Graphic Design

Description

This course covers theories and practices in the field of computer design. Emphasis is placed on use of typography, color palettes, and layers. Upon completion, students should be able to creatively produce designs and use appropriate industry-standard software.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

GRD160 - Photo Fundamentals I

Overview

Subject code	Course Number	Department(s)
GRD	160	Graphic Design

Description

This course introduces basic camera operations, roll film processing, and photographic print production. Topics include contrast, depth-of-field, subject composition, enlarger operation, and density control. Upon completion, students should be able to produce photographic prints with acceptable density values and quality.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

GRD161 - Photo Fundamentals II

Overview

Subject code	Course Number	Department(s)
GRD	161	Graphic Design

Description

This course is a continuation of GRD 160. Topics include conversions, toning, color, specialized equipment, lighting, processing, and other methods and materials. Upon completion, students should be able to demonstrate proficiency in producing photographic prints.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

GRD162 - Photography Portfolio

Overview

Subject code	Course Number	Department(s)
GRD	162	Graphic Design

Description

This course provides an opportunity to develop a portfolio through research and review of previous photographic works. Topics include visual communication skills and presentation of works. Upon completion, students should be able to prepare and present a portfolio of their photographic works.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

GRD167 - Digital Photography I

Overview

Subject code	Course Number	Department(s)
GRD	167	Graphic Design

Description

This course introduces basic camera operations. Topics include subject composition, depth of field, shutter control, light control, color, photo-finishing, digital imaging, correction and output. Upon completion, students should be able to produce digital photography with acceptable technical and compositional quality.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

GRD168 - Digital Photography II

Overview

Subject code	Course Number	Department(s)
GRD	168	Graphic Design

Description

This course introduces advanced camera operations and photographic production. Topics include lighting, specialized equipment, digital image correction and output, and other methods and materials. Upon completion, students should be able to demonstrate proficiency in producing high quality photography.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

GRD182 - Digital and Print Marketing

Overview

Subject code	Course Number	Department(s)
GRD	182	Graphic Design

Description

This course introduces the elements of marketing as it relates to digital and print media. Topics include promotion, placement, identifying a target audience, conducting research, analytics, selection of media, use of social media platforms, and search engine optimization as a marketing tool. Upon completion, students should be able to apply marketing concepts to digital and print design scenarios.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

GRD233 - Product Illustration

Overview

Subject code	Course Number	Department(s)
GRD	233	Graphic Design

Description

This course covers the rendering and illustration of products for commercial purposes. Topics include viewpoint, styles, media, and subjects such as household, industrial, hardware, and sporting goods. Upon completion, students should be able to illustrate products using traditional line, continuous-tone, and digital media.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

GRD241 - Graphic Design III

Overview

Subject code	Course Number	Department(s)
GRD	241	Graphic Design

Description

This course is an advanced exploration of various techniques and media for graphic design. Emphasis is placed on advanced concepts and solutions to complex and challenging graphic design problems. Upon completion, students should be able to demonstrate competence and professionalism in visual problem solving.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

GRD242 - Graphic Design IV

Overview

Subject code	Course Number	Department(s)
GRD	242	Graphic Design

Description

This course is a continuation of GRD 241. Emphasis is placed on using advanced media techniques, concepts, strategies, and professionalism in design. Upon completion, students should be able to conceptualize and generate designs.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

GRD263 - Digital Image Editing

Overview

Subject code	Course Number	Department(s)
GRD	263	Graphic Design

Description

This course covers the creative editing of images using industry standard software. Topics include digital techniques of masking, layering, applying generative content, and non-destructive editing. Upon completion, students should be able to edit and build digital images which accomplish design objectives.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

GRD280 - Portfolio Design

Overview

Subject code	Course Number	Department(s)
GRD	280	Graphic Design

Description

This course covers the organization and presentation of a design portfolio and appropriate related materials. Emphasis is placed on development and evaluation of the portfolio, resume and self-promotional materials, and interview techniques. Upon completion, students should be able to prepare and professionally present a portfolio and related self-promotional materials.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

HEA110 - Personal Health/ Wellness

Overview

Subject code	Course Number	Department(s)
HEA	110	Associate in Arts

Description

This course provides an introduction to basic personal health and wellness. Emphasis is placed on current health issues such as nutrition, mental health, and fitness. Upon completion, students should be able to demonstrate an understanding of the factors necessary to the maintenance of health and wellness.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HEA112 - First Aid & CPR

Overview

Subject code
HEA

Course Number
112

Department(s)
Associate in Arts

Description
This course introduces the basics of emergency first aid treatment. Topics include rescue breathing, CPR, first aid for choking and bleeding, and other first aid procedures. Upon completion, students should be able to demonstrate skills in providing emergency care for the sick and injured until medical help can be obtained.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

HEA120 - Community Health

Overview

Subject code
HEA

Course Number
120

Department(s)
Associate in Arts

Description
This course provides information about contemporary community health and school hygiene issues. Topics include health education and current information about health trends. Upon completion, students should be able to recognize and devise strategies to prevent today's community health problems.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

HIS111 - World Civilizations I

Overview

Subject code	Course Number	Department(s)
HIS	111	Associate in Arts

Description

This course introduces world history from the dawn of civilization to the early modern era. Topics include Eurasian, African, American, and Greco-Roman civilizations and Christian, Islamic and Byzantine cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in pre-modern world civilizations.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HIS112 - World Civilizations II

Overview

Subject code	Course Number	Department(s)
HIS	112	Associate in Arts

Description

This course introduces world history from the early modern era to the present. Topics include the cultures of Africa, Europe, India, China, Japan, and the Americas. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern world civilizations.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HIS131 - American History I

Overview

Subject code	Course Number	Department(s)
HIS	131	Associate in Arts

Description

This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HIS132 - American History II

Overview

Subject code	Course Number	Department(s)
HIS	132	Associate in Arts

Description

This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HMT110 - Introduction to Healthcare Management

Overview

Subject code	Course Number	Department(s)
HMT	110	Medical Office Administration

Description

This course introduces the functions, practices, organizational structures, and professional issues in healthcare management. Emphasis is placed on planning, controlling, directing, and communicating within health and human services organizations. Upon completion, students should be able to apply the concepts of management within a healthcare service environment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HMT211 - Long-Term Care Administration

Overview

Subject code	Course Number	Department(s)
HMT	211	Medical Office Administration

Description

This course introduces the administration of long-term care facilities and services. Emphasis is placed on nursing home care, home health care, hospice, skilled nursing facilities, and other long-term care services. Upon completion, students should be able to distinguish between the different long-term care offerings, criteria for use, and benefits of the patient, resident, and participant.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HMT212 - Management of Healthcare Organizations

Overview

Subject code	Course Number	Department(s)
HMT	212	Medical Office Administration

Description

This course examines current issues affecting the management of healthcare delivery systems. Topics include current problems, changes, and challenges in the healthcare environment. Upon completion, students should be able to identify current health care issues and their impact on healthcare management.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HOR112 - Landscape Design I

Overview

Subject code	Course Number	Department(s)
HOR	112	Agribusiness Technology

Description

This course covers landscape principles and practices for residential and commercial sites. Emphasis is placed on drafting, site analysis, and common elements of good design, plant material selection, and proper plant utilization (encouraged use of native plants and discouraged use of invasive species). Upon completion, students should be able to read plans and draft a landscape design according to sustainable practices.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HOR134 - Greenhouse Operations

Overview

Subject code	Course Number	Department(s)
HOR	134	Agribusiness Technology

Description

This course covers the principles and procedures involved in the operation and maintenance of greenhouse facilities. Emphasis is placed on the operation of greenhouse systems, including the environmental control, record keeping, scheduling, and production practices. Upon completion, students should be able to demonstrate the ability to operate greenhouse systems and facilities to produce greenhouse crops.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HOR150 - Introduction to Horticulture

Overview

Subject code	Course Number	Department(s)
HOR	150	Agribusiness Technology

Description

This course covers the history, development, and basic techniques of horticulture. Topics include propagation techniques, planting procedures, watering and fertility, plant growth, pest and disease control, and garden design and history. Upon completion, students should be able to demonstrate an understanding of the basic principles of horticulture.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

HOR168 - Plant Propagation

Overview

Subject code	Course Number	Department(s)
HOR	168	Agribusiness Technology

Description

This course is a study of sexual and asexual reproduction of plants. Emphasis is placed on seed propagation, grafting, stem and root propagation, micro-propagation, and other propagation techniques. Upon completion, students should be able to successfully propagate ornamental plants.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

HRM110 - Introduction to Hospitality and Tourism

Overview

Subject code	Course Number	Department(s)
HRM	110	Business Administration

Description

This course covers the growth and progress of the hospitality industry. Topics include tourism, lodging, resorts, gaming, restaurants, foodservice and clubs. Upon completion, students should be able to demonstrate an understanding of the background, context, and career opportunities that exist within the hospitality industry.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HRM140 - Legal Issues-Hospitality

Overview

Subject code	Course Number	Department(s)
HRM	140	Business Administration

Description

This course covers the rights and responsibilities that the law grants to or imposes upon the hospitality industry. Topics include federal and state regulations, historical and current practices, safety and security, risk management, loss prevention, relevant torts, and contracts. Upon completion, students should be able to demonstrate an understanding of the legal system and the concepts necessary to prevent or minimize organizational liability.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HRM150 - Training for Hospitality

Overview

Subject code	Course Number	Department(s)
HRM	150	Business Administration

Description

This course introduces techniques and methodology involved in developing training programs. Topics include job specification/description and breakdown, current and traditional training methods, coaching, evaluation, and management development. Upon completion, students should be able to produce job specifications, descriptions and breakdowns, and conduct technical training.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HRM210 - Meetings and Event Planning

Overview

Subject code	Course Number	Department(s)
HRM	210	Business Administration

Description

This course introduces concepts related to the planning and operation of conventions, trade shows, professional meetings, and foodservice events. Emphasis is placed on methods of marketing, selling, organizing, and producing conventions, events, and trade shows that will increase financial and environmental value. Upon completion, students should be able to demonstrate an understanding of management principles for multi-function, multi-day conferences and events.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HRM235 - Quality Management-Hospitality

Overview

Subject code	Course Number	Department(s)
HRM	235	Business Administration

Description

This course introduces the various schools of thought in achievementand implementation of quality standards for the hospitality industry. Emphasis is placed on developing and maintaining quality in the delivery of the tangible and intangible aspects of the service product. Upon completion, students should be able to demonstrate an understanding of quality service principles and apply them within a hospitality/ service environment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HSE110 - Introduction to Human Services

Overview

Subject code	Course Number	Department(s)
HSE	110	Social and Human Services

Description

This course introduces the human services field, including the history, agencies, roles, and careers. Topics include personal/professional characteristics, diverse populations, community resources, disciplines in the field, systems, ethical standards, and major theoretical and treatment approaches. Upon completion, students should be able to identify the knowledge, skills, and roles of the human services worker.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HSE112 - Group Process I

Overview

Subject code	Course Number	Department(s)
HSE	112	Social and Human Services

Description

This course introduces interpersonal concepts and group dynamics. Emphasis is placed on self-awareness facilitated by experiential learning in small groups with analysis of personal experiences and the behavior of others. Upon completion, students should be able to show competence in identifying and explaining how people are influenced by their interactions in group settings.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
2

HSE123 - Interviewing Techniques for Human Services

Overview

Subject code	Course Number	Department(s)
HSE	123	Social and Human Services

Description

This course covers the purpose, structure, focus, and techniques utilized in effective interviewing. Emphasis is placed on observing, attending, listening, responding, summarizing, and documenting with instructor supervision. Upon completion, students should be able to perform the basic interviewing skills needed to facilitate the helping relationship.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

HSE125 - Counseling

Overview

Subject code	Course Number	Department(s)
HSE	125	Social and Human Services

Description

This course covers the major approaches to psychotherapy and counseling, including theory, characteristics, and techniques. Emphasis is placed on facilitation of self-exploration, problem solving, decision making, and personal growth. Upon completion, students should be able to understand various theories of counseling and demonstrate counseling techniques.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HSE145 - Abuse & Neglect

Overview

Subject code	Course Number	Department(s)
HSE	145	Social and Human Services

Description

This course explores various types of abuse and neglect. Emphasis is placed on the causes and impact of abuse and neglect. Upon completion, students should be able to identify types of abuse and neglect, mandatory reporting laws, and strategies for intervening.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

HSE210 - Diversity, Ethics, and Trends in Human Services

Overview

Subject code	Course Number	Department(s)
HSE	210	Social and Human Services

Description

This course is designed to provide students with an in-depth understanding of the role of diversity and ethical considerations within the human services profession. Emphasis is placed on the knowledge and skills in the evolving landscape of human services. Upon completion, students should be able to apply ethical decision-making, demonstrate an understanding of diverse perspectives, and identify current trends in the human services field.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

HSE212 - Group Dynamics

Overview

Subject code	Course Number	Department(s)
HSE	212	Social and Human Services

Description

This course introduces the concepts of group processes and group dynamics. Emphasis is placed on essential tools for understanding, participating in, and contributing to group processes. Upon completion, students should be able to identify and explain how people are influenced by their interactions in group settings and facilitate various groups.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

HSE220 - Case Management

Overview

Subject code	Course Number	Department(s)
HSE	220	Social and Human Services

Description

This course covers a variety of tasks associated with professional case management. Topics include needs assessment, service planning, referral procedures, documentation, follow-up, and integration of services. Upon completion, students should be able to effectively manage the care of the whole person from initial contact through termination of services.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

HSE223 - Counseling Theories & Skills

Overview

Subject code	Course Number	Department(s)
HSE	223	Social and Human Services

Description

This course provides an in-depth exploration of foundational theories and practical techniques essential for those working in diverse human services settings. Emphasis is placed on self-awareness, problem-solving, decision-making, and personal growth. Upon completion, students should be able to apply these theories to real-life scenarios, and develop professional skills crucial for fostering supportive relationships in various settings.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

HSE225 - Crisis and Intervention Principles

Overview

Subject code	Course Number	Department(s)
HSE	225	Social and Human Services

Description

This course introduces the types of crises and the principles of intervention. Emphasis is placed on identifying culturally competent techniques for intervening in various crisis situations. Upon completion, students should be able to assess crisis situations and respond effectively.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

HSE245 - Stress Management

Overview

Subject code	Course Number	Department(s)
HSE	245	Social and Human Services

Description

This course covers stressors and techniques for stress management. Topics include self-advocacy, relaxation techniques, mindfulness, coping skills, time management, and priority alignment. Upon completion, students should be able to identify areas of stress and the skills and techniques for dealing with stressors.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

HUM110 - Technology and Society

Overview

Subject code	Course Number	Department(s)
HUM	110	Associate in Arts

Description

This course considers technological change from historical, artistic, and philosophical perspectives and its effect on human needs and concerns. Emphasis is placed on the causes and consequences of technological change. Upon completion, students should be able to critically evaluate the implications of technology.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HUM115 - Critical Thinking

Overview

Subject code
HUM

Course Number
115

Department(s)
Associate in Arts

Description
This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on evaluating information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
3

HUM120 - Cultural Studies

Overview

Subject code
HUM

Course Number
120

Department(s)
Associate in Arts

Description
This course introduces the distinctive features of a particular culture. Topics include art, history, music, literature, politics, philosophy, and religion. Upon completion, students should be able to appreciate the unique character of the study culture.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

HUM122 - Southern Culture

Overview

Subject code	Course Number	Department(s)
HUM	122	Associate in Arts

Description

This course explores the major qualities that make the South a distinct region. Topics include music, politics, literature, art, religion, race relations, and the role of social class in historical and contemporary contexts. Upon completion, students should be able to identify the characteristics that distinguish Southern culture.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HUM130 - Myth in Human Culture

Overview

Subject code	Course Number	Department(s)
HUM	130	Associate in Arts

Description

This course provides an in-depth study of myths and legends. Topics include the varied sources of myths and their influence on the individual and society within diverse cultural contexts. Upon completion, students should be able to demonstrate a general familiarity with myths and a broad-based understanding of the influence of myths and legends on modern culture.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HUM170 - The Holocaust

Overview

Subject code	Course Number	Department(s)
HUM	170	Associate in Arts

Description

This course provides a survey of the destruction of European Jewry by the Nazis during World War II. Topics include the anti-Semitic ideology, bureaucratic structures, and varying conditions of European occupation and domination under the Third Reich. Upon completion, students should be able to demonstrate an understanding of the historical, social, religious, political, and economic factors which cumulatively resulted in the Holocaust.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HUM180 - International Cultural Exploration

Overview

Subject code	Course Number	Department(s)
HUM	180	Associate in Arts

Description

This course provides a framework for students to visit, examine, and analyze a country/region outside the United States to learn about the place and people. Emphasis is placed on the distinctive cultural characteristics of a country or region. Upon completion, students should be able to identify similarities/differences, analyze causes/effects, and clearly articulate the impact of one or more cultural elements.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HUM211 - Humanities I

Overview

Subject code	Course Number	Department(s)
HUM	211	Associate in Arts

Description

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from ancient through early modern times. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HUM212 - Humanities II

Overview

Subject code	Course Number	Department(s)
HUM	212	Associate in Arts

Description

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from early modern times to the present. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

HUM220 - Human Values and Meaning

Overview

Subject code	Course Number	Department(s)
HUM	220	Associate in Arts

Description

This course presents some major dimensions of human experience as reflected in art, music, literature, philosophy, and history. Topics include the search for identity, the quest for knowledge, the need for love, the individual and society, and the meaning of life. Upon completion, students should be able to recognize interdisciplinary connections and distinguish between open and closed questions and between narrative and scientific models of understanding.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HUM230 - Leadership Development

Overview

Subject code	Course Number	Department(s)
HUM	230	Associate in Arts

Description

This course explores the theories and techniques of leadership and group process. Emphasis is placed on leadership styles, theories of group dynamics, and the moral and ethical responsibilities of leadership. Upon completion, students should be able to identify and analyze a personal philosophy and style of leadership and integrate these concepts in various practical situations.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

HYD110 - Hydraulics/ Pneumatics I

Overview

Subject code	Course Number	Department(s)
HYD	110	Industrial Systems Technology

Description

This course introduces the basic components and functions of hydraulic and pneumatic systems. Topics include standard symbols, pumps, control valves, control assemblies, actuators, FRL, maintenance procedures, and switching and control devices. Upon completion, students should be able to understand the operation of a fluid power system, including design, application, and troubleshooting.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ISC121 - Environmental Health & Safety

Overview

Subject code	Course Number	Department(s)
ISC	121	Industrial Systems Technology

Description

This course covers workplace environmental, health, and safety concepts. Emphasis is placed on managing the implementation and enforcement of environmental health and safety regulations and on preventing accidents, injuries, and illnesses. Upon completion, students should be able to demonstrate an understanding of basic concepts of environmental health and safety.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ISC132 - Manufacturing Quality Control

Overview

Subject code	Course Number	Department(s)
ISC	132	Industrial Systems Technology

Description

This course introduces quality concepts and techniques used in industry. Topics include elementary statistics and probability, process control, process capability, and quality improvement tools. Upon completion, students should be able to demonstrate an understanding of the concepts and principles of quality and apply them to the work environment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

ISC212 - Metrology

Overview

Subject code	Course Number	Department(s)
ISC	212	Mechanical Engineering Technology

Description

This course covers the principles and techniques of modern practical metrology and inspection methods. Topics include precision, accuracy, standards, and calibration. Upon completion, students should be able to perform various roles within a metrology system.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

LET110 - Basic Law Enforcement Training (BLET)

Overview

Subject code	Course Number	Department(s)
LET	110	Basic Law Enforcement Training

Description

This course covers the basic knowledge and skills needed for entry-level employment as a law enforcement officer in North Carolina as required by the Criminal Justice Education and Training Standards Commission and the Sheriffs' Education and Training Standards Commission. Topics include Commission-mandated content specific to law enforcement in North Carolina, criminal investigations, traffic enforcement/investigations, patrol techniques, crisis intervention, communication and de-escalation skills, interviews and interrogations, criminal and constitutional law, court procedures, civil process, ethical problem solving, and officer wellness. Upon completion, students should be able to demonstrate competence in the content required for the state comprehensive certification examination administered by the NC Department of Justice.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
37

MAC113 - Machining Technology III

Overview

Subject code	Course Number	Department(s)
MAC	113	Computer Integrated Machining

Description

This course provides an introduction to advanced and special machining operations. Emphasis is placed on working to specified tolerances with special and advanced setups. Upon completion, students should be able to produce a part to specifications.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
6

MAC114 - Introduction to Metrology

Overview

Subject code	Course Number	Department(s)
MAC	114	Mechanical Engineering Technology

Description

This course introduces the care and use of precision measuring instruments. Emphasis is placed on the inspection of machine parts and use of a wide variety of measuring instruments. Upon completion, students should be able to demonstrate the correct use of measuring instruments.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MAC118 - Machine Shop Basic

Overview

Subject code	Course Number	Department(s)
MAC	118	Computer Integrated Machining

Description

This course will introduce the fundamentals of measuring tools, tolerances and the basic set-up and operations of drill presses, lathes, and milling machines. Emphasis is placed on manufacturing standards and procedures used in welding, automotive, and engineering environments. Upon completion, students should be able to use measuring tools, perform basic machine operations, and apply manufacturing standards.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MAC121 - Introduction to CNC

Overview

Subject code	Course Number	Department(s)
MAC	121	Computer Integrated Machining

Description

This course introduces the concepts and capabilities of computer numerical control machine tools. Topics include setup, operation, and basic applications. Upon completion, students should be able to explain operator safety, machine protection, data input, program preparation, and program storage.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MAC122 - CNC Turning

Overview

Subject code	Course Number	Department(s)
MAC	122	Computer Integrated Machining

Description

This course introduces the programming, setup, and operation of CNC turning centers. Topics include programming formats, control functions, program editing, part production, and inspection. Upon completion, students should be able to manufacture simple parts using CNC turning centers.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MAC124 - CNC Milling

Overview

Subject code	Course Number	Department(s)
MAC	124	Computer Integrated Machining

Description

This course introduces the manual programming, setup, and operation of CNC machining centers. Topics include programming formats, control functions, program editing, part production, and inspection. Upon completion, students should be able to manufacture simple parts using CNC machining centers.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MAC126 - CNC Metal Fabrication

Overview

Subject code	Course Number	Department(s)
MAC	126	Computer Integrated Machining

Description

This course introduces CNC operations used in precision metal fabrication. Topics include CNC control of shears, brakes, punch presses, and lasers and the programming techniques used to produce parts. Upon completion, students should be able to demonstrate knowledge of equipment operations, CNC control functions, and part programming.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MAC141 - Machining Applications I

Overview

Subject code	Course Number	Department(s)
MAC	141	Computer Integrated Machining

Description

This course provides an introduction to a variety of material-working processes that are common to the machining industry. Topics include safety, process-specific machining equipment, measurement devices, set-up and layout instruments, and common shop practices. Upon completion, students should be able to safely demonstrate basic machining operations, accurately measure components, and effectively use layout instruments.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

MAC141A - MacHining Applications I Lab

Overview

Subject code	Course Number	Department(s)
MAC	141A	Computer Integrated Machining

Description

This course provides an introduction to a variety of material-working processes, in a laboratory setting, that are common to the machining industry. Topics include safety, process-specific machining equipment, measurement devices, set-up and layout instruments, and common shop practices. Upon completion, students should be able to safely demonstrate basic machining operations, accurately measure components, and effectively use layout instruments.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MAC142 - Machining Applications II

Overview

Subject code	Course Number	Department(s)
MAC	142	Computer Integrated Machining

Description

This course provides instruction in the wide variety of processes associated with machining. Topics include safety, equipment set-up, holding fixtures, tooling, cutting speeds and depths, metal properties, and proper finishes. Upon completion, students should be able to safely demonstrate advanced machining operations, accurately measure components, and produce accurate components with a proper finish.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

MAC142A - Machining Applications II Lab

Overview

Subject code	Course Number	Department(s)
MAC	142A	Computer Integrated Machining

Description

This course provides laboratory instruction in the wide variety of processes associated with machining. Topics include safety, equipment setup, holding fixtures, tooling, cutting speeds and depths, metal properties, and proper finishes. Upon completion, students should be able to safely demonstrate advanced machining operations, accurately measure components, and produce accurate components with a proper finish.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MAC151 - Machining Calculations

Overview

Subject code	Course Number	Department(s)
MAC	151	Computer Integrated Machining

Description

This course introduces basic calculations as they relate to machining occupations. Emphasis is placed on basic calculations and their applications in the machine shop. Upon completion, students should be able to perform basic shop calculations.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MAC160 - Coordinate Measuring Machines

Overview

Subject code	Course Number	Department(s)
MAC	160	Mechatronics Engineering Technology

Description

This course introduces methods in the setup and operation of coordinate measuring machines. Emphasis is placed on the programming of coordinate measuring machines and the measurement of complex parts. Upon completion, students should be able to demonstrate skills in programming, operation, and setup of coordinate measuring machines.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

MAC171 - Measure/Material and Safety

Overview

Subject code	Course Number	Department(s)
MAC	171	Computer Integrated Machining

Description

This course introduces precision measuring instruments, process control and adjustment, inspection, material handling and workplace safety. Topics include properly identifying and handling various measurement instruments and materials, process control, adjustment and improvement, personal protective equipment (PPE) and OSHA safety regulations. Upon completion, students should be able to safely demonstrate effective measurement techniques, identify and handle various materials, and explain safe industry practices.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

MAC214 - Machining Technology IV

Overview

Subject code	Course Number	Department(s)
MAC	214	Computer Integrated Machining

Description

This course provides advanced applications and practical experience in the manufacturing of complex parts. Emphasis is placed on inspection, gaging, and the utilization of machine tools. Upon completion, students should be able to manufacture complex assemblies to specifications.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
6

MAC222 - Advanced CNC Turning

Overview

Subject code	Course Number	Department(s)
MAC	222	Computer Integrated Machining

Description

This course covers advanced methods in setup and operation of CNC turning centers. Emphasis is placed on programming and production of complex parts. Upon completion, students should be able to demonstrate skills in programming, operations, and setup of CNC turning centers.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MAC224 - Advanced CNC Milling

Overview

Subject code	Course Number	Department(s)
MAC	224	Computer Integrated Machining

Description

This course covers advanced methods in setup and operation of CNC machining centers. Emphasis is placed on programming and production of complex parts. Upon completion, students should be able to demonstrate skills in programming, operations, and setup of CNC machining centers.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MAC232 - CAM: Computer Numerical Control Milling

Overview

Subject code	Course Number	Department(s)
MAC	232	Computer Integrated Machining

Description

This course introduces Computer Numerical Control graphics programming and concepts for machining center applications. Emphasis is placed on developing a shape file in a graphics CAM system and transferring coded information from CAM graphics to the CNC milling center. Upon completion, students should be able to develop a complete job plan using CAM software to create a multi-axis CNC program.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

MAC233 - Appl in CNC Machining

Overview

Subject code	Course Number	Department(s)
MAC	233	Computer Integrated Machining

Description

This capstone course provides students the opportunity to apply skills learned throughout the curriculum. Emphasis is placed on production of parts and assemblies using modern CNC machine tools. Upon completion, students should be able to manufacture complex parts using a variety of CNC machine tools.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
6

MAC234 - Advanced Multi-Axis Machining

Overview

Subject code	Course Number	Department(s)
MAC	234	Computer Integrated Machining

Description

This course includes multi-axis machining using machining centers with multi-axis capabilities. Emphasis is placed on generation of machining center input with a CAM system and setup of pallet changer and rotary system for multi-axis machining fixtures. Upon completion, students should be able to convert CAD to output for multi-axis machining centers, including tooling, setup, and debugging processes.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

MAC234A - Advanced Multi-Axis MacHining Lab

Overview

Subject code	Course Number	Department(s)
MAC	234A	Computer Integrated Machining

Description

This course covers the application of multi-axis machining using machining centers with multi-axis capabilities. Emphasis is placed on generation of machining center input with a CAM system and setup of pallet changer and rotary system for multi-axis machining fixtures. Upon completion, students should be able to convert CAD to output for multi-axis machining centers, including tooling, setup, and debugging processes.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

MAC241 - Jigs & Fixtures I

Overview

Subject code	Course Number	Department(s)
MAC	241	Computer Integrated Machining

Description

This course introduces the application and use of jigs and fixtures. Emphasis is placed on design and manufacture of simple jigs and fixtures. Upon completion, students should be able to design and build simple jigs and fixtures.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

MAS140 - Introduction to Masonry

Overview

Subject code	Course Number	Department(s)
MAS	140	Building Construction Technology

Description

This course introduces basic principles and practices of masonry. Topics include standard tools, materials, and practices used in basic masonry and other related topics. Upon completion, students should be able to demonstrate an understanding of masonry and be able to use basic masonry techniques.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MAT025 - Concepts of Essential Math/Statistics

Overview

Subject code	Course Number	Department(s)
MAT	025	Developmental Education

Description

This course provides an opportunity to customize foundational math content and statistical concepts specific to real-world applications. Topics include decimals, percentages, ratios, proportions, solving basic equations, geometrical concepts, dimensional analysis, financial applications and elements of statistics and probability. Upon completion, students should be able to successfully demonstrate the use of mathematics, technology and statistical concepts to solve practical problems while developing positive academic habits, learning strategies and growth mindset.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

MAT035 - Concepts of Algebra

Overview

Subject code	Course Number	Department(s)
MAT	035	Developmental Education

Description

This course covers algebraic concepts with an emphasis on application and analysis. Topics include rational/radical expressions and equations, solving equations and inequalities, concepts of functions, factoring, and exponents. Upon completion, students should be able to successfully demonstrate mastery of algebraic concepts through application and analysis while developing positive academic habits, learning strategies and growth mindset.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

MAT045 - Math Skills Support

Overview

Subject code	Course Number	Department(s)
MAT	045	Developmental Education

Description

This course provides opportunities for students to build a stronger foundation for success in their gateway math course by obtaining skills through a variety of instructional strategies. Emphasis is placed on foundational skills as well as concepts, skills, vocabulary and definitions necessary to master student learning outcomes of the gateway math course. Upon completion, student should be able to apply mathematical concepts and critical thinking skills to solve problems relevant to the student's gateway math course.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

MAT045M - Math Skills Support - Mathematical Measu

Overview

Subject code	Course Number	Department(s)
MAT	045M	Developmental Education

Description

This course provides opportunities for students to build a stronger foundation for success in their gateway math course by obtaining skills through a variety of instructional strategies. Emphasis is placed on foundational skills as well as concepts, skills, vocabulary and definitions necessary to master student learning outcomes of the gateway math course. Upon completion, student should be able to apply mathematical concepts and critical thinking skills to solve problems relevant to the student's gateway math course.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

MAT045P - Math Skills Support Pre-Calculus

Overview

Subject code	Course Number	Department(s)
MAT	045P	Developmental Education

Description

This course provides opportunities for students to build a stronger foundation for success in their gateway math course by obtaining skills through a variety of instructional strategies. Emphasis is placed on foundational skills as well as concepts, skills, vocabulary and definitions necessary to master student learning outcomes of the gateway math course. Upon completion, student should be able to apply mathematical concepts and critical thinking skills to solve problems relevant to the student's gateway math course.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

MAT045Q - Math Skills Support Quantitative Literac

Overview

Subject code	Course Number	Department(s)
MAT	045Q	Developmental Education

Description

This course provides opportunities for students to build a stronger foundation for success in their gateway math course by obtaining skills through a variety of instructional strategies. Emphasis is placed on foundational skills as well as concepts, skills, vocabulary and definitions necessary to master student learning outcomes of the gateway math course. Upon completion, student should be able to apply mathematical concepts and critical thinking skills to solve problems relevant to the student's gateway math course.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

MAT045S - Math Skills Support Statistics

Overview

Subject code	Course Number	Department(s)
MAT	045S	Developmental Education

Description

This course provides opportunities for students to build a stronger foundation for success in their gateway math course by obtaining skills through a variety of instructional strategies. Emphasis is placed on foundational skills as well as concepts, skills, vocabulary and definitions necessary to master student learning outcomes of the gateway math course. Upon completion, student should be able to apply mathematical concepts and critical thinking skills to solve problems relevant to the student's gateway math course.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
2

MAT110 - Mathematical Measurement and Literacy

Overview

Subject code	Course Number	Department(s)
MAT	110	Associate in Science

Description

This course provides an activity-based approach that develops measurement skills and mathematical literacy using technology to solve problems for non-math intensive programs. Topics include unit conversions and estimation within a variety of measurement systems; ratio and proportion; basic geometric concepts; financial literacy; and statistics including measures of central tendency, dispersion, and charting of data. Upon completion, students should be able to demonstrate the use of mathematics and technology to solve practical problems, and to analyze and communicate results.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

MAT121 - Algebra/ Trigonometry I

Overview

Subject code	Course Number	Department(s)
MAT	121	Associate in Science

Description

This course provides an integrated approach to technology and the skills required to manipulate, display, and interpret mathematical functions and formulas used in problem solving. Topics include the properties of plane and solid geometry, area and volume, and basic proportion applications; simplification, evaluation, and solving of algebraic equations and inequalities and radical functions; complex numbers; right triangle trigonometry; and systems of equations. Upon completion, students will be able to demonstrate the ability to use mathematics and technology for problem-solving, analyzing and communicating results.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

MAT122 - Algebra/ Trigonometry II

Overview

Subject code	Course Number	Department(s)
MAT	122	Associate in Science

Description

This course is designed to cover concepts in algebra, function analysis, and trigonometry. Topics include exponential and logarithmic functions, transformations of functions, Law of Sines, Law of Cosines, vectors, and statistics. Upon completion, students should be able to demonstrate the ability to use mathematics and technology for problem-solving, analyzing and communicating results.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

MAT143 - Quantitative Literacy

Overview

Subject code	Course Number	Department(s)
MAT	143	Associate in Science

Description

This course is designed to engage students in complex and realistic situations involving the mathematical phenomena of quantity, change and relationship, and uncertainty through project- and activity-based assessment. Emphasis is placed on authentic contexts which will introduce the concepts of numeracy, proportional reasoning, dimensional analysis, rates of growth, personal finance, consumer statistics, practical probabilities, and mathematics for citizenship. Upon completion, students should be able to utilize quantitative information as consumers and to make personal, professional, and civic decisions by decoding, interpreting, using, and communicating quantitative information found in modern media and encountered in everyday life.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics. Successful completion of MAT-152 permits a student to register for MAT-143 without the co-req MAT-043.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

MAT152 - Statistical Methods I

Overview

Subject code	Course Number	Department(s)
MAT	152	Associate in Science

Description

This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion, students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics. Successful completion of MAT-143 permits a student to register for MAT-152 without the co-req MAT-052.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

MAT171 - Precalculus Algebra

Overview

Subject code	Course Number	Department(s)
MAT	171	Associate in Science

Description

This course is designed to develop topics which are fundamental to the study of Calculus. Emphasis is placed on solving equations and inequalities, solving systems of equations and inequalities, and analysis of functions (absolute value, radical, polynomial, rational, exponential, and logarithmic) in multiple representations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to algebra-related problems with and without technology.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics. Successful completion of MAT-121 permits a student to register for MAT-171 without the co-req MAT-071. Successful completion of MAT-143 or MAT-152 permits a student to register for MAT-171 with the co-req MAT-071.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

MAT172 - Precalculus Trigonometry

Overview

Subject code	Course Number	Department(s)
MAT	172	Associate in Science

Description

This course is designed to develop an understanding of topics which are fundamental to the study of Calculus. Emphasis is placed on the analysis of trigonometric functions in multiple representations, right and oblique triangles, vectors, polar coordinates, conic sections, and parametric equations.
Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to trigonometry-related problems with and without technology.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

MAT263 - Brief Calculus

Overview

Subject code	Course Number	Department(s)
MAT	263	Associate in Science

Description

This course is designed to introduce concepts of differentiation and integration and their applications to solving problems. Topics include graphing, differentiation, and integration with emphasis on applications drawn from business, economics, and biological and behavioral sciences.
Upon completion, students should be able to demonstrate an understanding of the use of basic calculus and technology to solve problems and to analyze and communicate results.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

MAT271 - Calculus I

Overview

Subject code	Course Number	Department(s)
MAT	271	Associate in Science

Description

This course is designed to develop the topics of differential and integral calculus. Emphasis is placed on limits, continuity, derivatives and integrals of algebraic and transcendental functions of one variable. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to derivative-related problems with and without technology.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

MAT272 - Calculus II

Overview

Subject code	Course Number	Department(s)
MAT	272	Associate in Science

Description

This course is designed to develop advanced topics of differential and integral calculus. Emphasis is placed on the applications of definite integrals, techniques of integration, indeterminate forms, improper integrals, infinite series, conic sections, parametric equations, polar coordinates, and differential equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to integral-related problems with and without technology.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

MAT273 - Calculus III

Overview

Subject code	Course Number	Department(s)
MAT	273	Associate in Science

Description

This course is designed to develop the topics of multivariate calculus. Emphasis is placed on multivariate functions, partial derivatives, multiple integration, solid analytical geometry, vector valued functions, and line and surface integrals. Upon completion, students should be able to select and use appropriate models and techniques for finding the solution to multivariate-related problems with and without technology.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

MAT280 - Linear Algebra

Overview

Subject code	Course Number	Department(s)
MAT	280	Associate in Science

Description

This course provides an introduction to linear algebra topics. Emphasis is placed on the development of abstract concepts and applications for vectors, systems of equations, matrices, determinants, vector spaces, multi-dimensional linear transformations, eigenvectors, eigenvalues, diagonalization and orthogonality. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to linear algebra-related problems with and without technology.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

MAT285 - Differential Equations

Overview

Subject code
MAT

Course Number
285

Department(s)
Associate in Science

Description
This course provides an introduction to topics involving ordinary differential equations. Emphasis is placed on the development of abstract concepts and applications for first-order and linear higher-order differential equations, systems of differential equations, numerical methods, series solutions, eigenvalues and eigenvectors, and LaPlace transforms. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to differential equations-related problems with and without technology.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

MEC110 - Introduction to CAD/CAM

Overview

Subject code	Course Number	Department(s)
MEC	110	Computer Integrated Machining

Description
This course introduces CAD/CAM. Emphasis is placed on transferring part geometry from CAD to CAM for the development of a CNC-ready program. Upon completion, students should be able to use CAD/CAM software to produce a CNC program.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MEC130 - Mechanisms

Overview

Subject code	Course Number	Department(s)
MEC	130	Mechatronics Engineering Technology

Description
This course introduces the purpose and action of various mechanical devices. Topics include cams, cables, gear trains, differentials, screws, belts, pulleys, shafts, levers, lubricants, and other devices. Upon completion, students should be able to analyze, maintain, and troubleshoot the components of mechanical systems.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
3

MEC161 - Manufacturing Processes I

Overview

Subject code	Course Number	Department(s)
MEC	161	Mechanical Engineering Technology

Description

This course provides the fundamental principles of value-added processing of materials into usable forms for the customer. Topics include material properties and traditional and non-traditional manufacturing processes. Upon completion, students should be able to specify appropriate manufacturing processing for common engineering materials.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

MEC180 - Engineering Materials

Overview

Subject code	Course Number	Department(s)
MEC	180	Mechanical Engineering Technology

Description

This course introduces the physical and mechanical properties of materials. Topics include materials testing, pre- and post-manufacturing processes, and material selection of ferrous and non-ferrous metals, plastics, composites, and non-conventional materials. Upon completion, students should be able to utilize basic material property tests and select appropriate materials for applications.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

MEC181 - Introduction to CIM

Overview

Subject code	Course Number	Department(s)
MEC	181	Mechanical Engineering Technology

Description

This course introduces the elements of computer-integrated manufacturing(CIM). Topics include statistical process control, computer-aided design and manufacturing, numeric control, and flexible systems. Upon completion, students should be able to explain the major components of computer-integrated manufacturing.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MEC231 - Computer-Aided Manufacturing I

Overview

Subject code	Course Number	Department(s)
MEC	231	Mechanical Engineering Technology

Description

This course introduces computer-aided design/ manufacturing (CAD/CAM) applications and concepts. Topics include software, programming, data transfer and verification, and equipment setup. Upon completion, students should be able to produce parts using CAD/CAM applications.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

MEC232 - Computer-Aided Manufacturing II

Overview

Subject code	Course Number	Department(s)
MEC	232	Mechanical Engineering Technology

Description

This course provides an in-depth study of CAM applications and concepts. Emphasis is placed on the manufacturing of complex parts using computer-aided manufacturing software. Upon completion, students should be able to manufacture complex parts using CAM software.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

MEC270 - Machine Design

Overview

Subject code	Course Number	Department(s)
MEC	270	Mechanical Engineering Technology

Description

This course covers the basic principles underlying design and selection of machine elements. Topics include stress analysis, selection of components, power transmission, and other design considerations. Upon completion, students should be able to identify and solve mechanical design problems by applying basic engineering principles.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

MEC271 - Machine Design Project

Overview

Subject code	Course Number	Department(s)
MEC	271	Mechanical Engineering Technology

Description

This course provides an opportunity for involvement in the practical application of machine design by development of a project. Emphasis is placed on the design and engineering processes required to complete an approved project. Upon completion, students should be able to demonstrate the ability to progress from conceptual design to completed project.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

MED121 - Medical Terminology I

Overview

Subject code	Course Number	Department(s)
MED	121	Medical Office Administration

Description

This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

MED122 - Medical Terminology II

Overview

Subject code	Course Number	Department(s)
MED	122	Medical Office Administration

Description

This course is the second in a series of medical terminology courses. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

MKT120 - Principles of Marketing

Overview

Subject code	Course Number	Department(s)
MKT	120	Business Administration

Description

This course introduces principles and problems of marketing goods and services. Topics include promotion, placement, and pricing strategies for products. Upon completion, students should be able to apply marketing principles in organizational decision making.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

MKT220 - Advertising and Sales Promotion

Overview

Subject code	Course Number	Department(s)
MKT	220	Business Administration

Description

This course covers the elements of advertising and sales promotion in the business environment. Topics include advertising and sales promotion appeals, selection of media, use of advertising and sales promotion as a marketing tool, and means of testing effectiveness. Upon completion, students should be able to demonstrate an understanding of the concepts covered through application.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

MKT223 - Customer Experience

Overview

Subject code	Course Number	Department(s)
MKT	223	Business Administration

Description

This course stresses the importance of customer relations in the business world. Emphasis is placed on learning how to respond to complex customer requirements and to efficiently handle stressful situations. Upon completion, students should be able to demonstrate the ability to handle customer relations.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

MNT110 - Introduction to Maintenance Procedures

Overview

Subject code	Course Number	Department(s)
MNT	110	Industrial Systems Technology

Description

This course covers basic maintenance fundamentals for power transmission equipment. Topics include equipment inspection, lubrication, alignment, and other scheduled maintenance procedures. Upon completion, students should be able to demonstrate knowledge of accepted maintenance procedures and practices according to current industry standards.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MNT222 - Industrial Systems Schematics

Overview

Subject code	Course Number	Department(s)
MNT	222	Industrial Systems Technology

Description

This course covers the reading and drawing of schematics and diagrams. Emphasis is placed on water and gas plumbing, hydraulic and pneumatic circuits, electrical circuits, and welding diagrams. Upon completion, students should be able to interpret and construct industrial schematics and diagrams.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

MUS110 - Music Appreciation

Overview

Subject code	Course Number	Department(s)
MUS	110	Associate in Arts

Description

This course is a basic survey of the music of the Western world. Emphasis is placed on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of music.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

MUS112 - Introduction to Jazz

Overview

Subject code	Course Number	Department(s)
MUS	112	Associate in Arts

Description

This course introduces the origins and musical components of jazz and the contributions of its major artists. Emphasis is placed on the development of discriminating listening habits, as well as the investigation of the styles and structural forms of the jazz idiom. Upon completion, students should be able to demonstrate skills in listening and understanding this form of American music.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

MUS113 - American Music

Overview

Subject code
MUS

Course Number
113

Description
This course introduces various musical styles, influences, and composers of the United States from pre-Colonial times to the present. Emphasis is placed on the broad variety of music particular to American culture. Upon completion, students should be able to demonstrate skills in basic listening and understanding of American music.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

MUS121 - Music Theory I

Overview

Subject code
MUS

Course Number
121

Description
This course provides an introduction to the musical elements of melody, rhythm, and harmony. Emphasis is placed upon the interaction of these elements through fundamental analysis and an introduction to part writing. Upon completion, students should be able to demonstrate understanding of melodic voice leading, rhythmic functions within simple and compound meters, and simple harmonic progressions.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

MUS122 - Music Theory II

Overview

Subject code
MUS

Course Number
122

Description
This course provides a comprehensive study of diatonic harmony. Emphasis is placed on voice leading tasks, part writing, and analysis using various labeling systems. Upon completion, students should be able to demonstrate harmonic principles through four-voice part writing, recognize and label non-harmonic tones, analyze chords using Roman numerals, figured bass, and lead sheet symbols, and classify small-scale phrase structure and cadence types.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

MUS125 - Aural Skills I

Overview

Subject code
MUS

Course Number
125

Description
This course provides an introduction to the fundamentals in aural skills. Emphasis is placed on the study of basic melodies, harmonies, and rhythms through sight singing and ear training. Upon completion, students should be able to identify diatonic intervals, scales, and chords and perform and dictate simple melodies and rhythmic patterns.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS126 - Aural Skills II

Overview

Subject code
MUS

Course Number
126

Description
This course provides a foundation in aural skills. Emphasis is placed on the development of sight singing and ear training skills in diatonic melody, diatonic harmonic progression, and rhythmic patterns. Upon completion, students should be able to fluently read music in treble and bass clefs; utilize any solmization system while sight singing simple diatonic melodies; identify elementary diatonic chord progressions; perform rhythms in simple and compound meters; and dictate diatonic melodic, diatonic harmonic, and advanced rhythmic patterns.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS131 - Chorus I

Overview

Subject code
MUS

Course Number
131

Description
This course provides an opportunity to gain experience singing in a chorus. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance.

CAA statement
. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS132 - Chorus II

Overview

Subject code
MUS

Course Number
132

Description
This course provides a continuation of studies begun in MUS 131. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS137 - Orchestra I

Overview

Subject code
MUS

Course Number
137

Description
This course provides an opportunity for those who play an orchestral instrument to gain experience playing in an ensemble. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS138 - Orchestra II

Overview

Subject code
MUS

Course Number
138

Description
This course is a continuation of MUS 137. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS141 - Ensemble I

Overview

Subject code
MUS

Course Number
141

Description
This course provides an opportunity to perform in any combination of instrumental, vocal, or keyboard groups of two or more. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS142 - Ensemble II

Overview

Subject code
MUS

Course Number
142

Description
This course is a continuation of MUS 141. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS151 - Class Music I

Overview

Subject code
MUS

Course Number
151

Description
This course provides group instruction in skills and techniques of the particular instrument or voice for those with little or no previous experience. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS151P - Class Music I - Piano

Overview

Subject code
MUS

Course Number
151P

Description
This course provides group instruction in skills and techniques of the particular instrument or voice for those with little or no previous experience. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS151S - Class Music I - Voice

Overview

Subject code
MUS

Course Number
151S

Description
This course provides group instruction in skills and techniques of the particular instrument or voice for those with little or no previous experience. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS152 - Class Music II

Overview

Subject code
MUS

Course Number
152

Description
This course is a continuation of MUS 151. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS152P - Class Music II - Piano

Overview

Subject code
MUS

Course Number
152P

Description
This course is a continuation of MUS 151. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS152S - Class Music II - Voice

Overview

Subject code
MUS

Course Number
152S

Department(s)
Associate in Arts

Description
This course is a continuation of MUS 151. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. Class Music II- Voice

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
1

MUS161 - Applied Music I

Overview

Subject code
MUS

Course Number
161

Description
This course provides individual instruction in the skills and techniques of the particular instrument or voice. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

MUS162 - Applied Music II

Overview

Subject code
MUS

Course Number
162

Description
This course is a continuation of MUS 161. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

MUS221 - Music Theory III

Overview

Subject code
MUS

Course Number
221

Description
This course provides a comprehensive study of chromatic harmony. Emphasis is placed on advanced voice leading tasks, part writing, and analysis of chord progressions, modulations, and large-scale forms. Upon completion, students should be able to identify, notate, and analyze an array of chromatic chords, recognize the function and movement of chromatic harmonies, identify modulatory procedures, analyze formal structures including, but not limited to, binary, ternary, sonata, and rondo.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

MUS222 - Music Theory IV

Overview

Subject code
MUS

Course Number
222

Description
This course provides an advanced study of chromatic harmony, scale systems, and an introduction to twentieth-century music. Emphasis is placed on advanced part writing and analysis of chromatic harmony and basic twentieth-century compositional and analytical techniques. Upon completion, students should be able to analyze complex chord progressions, advanced modulations, and elemental serial procedures; build an array of synthetic scales; and identify characteristics of twentieth-century topics including, but not limited to, atonality, serialism, minimalism, indeterminacy, and electronic music.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

MUS225 - Aural Skills III

Overview

Subject code
MUS

Course Number
225

Description
This course provides advanced aural skills training in diatonicism and basic aural skills training in chromaticism. Emphasis is placed on the development of sight singing and ear training skills in complex rhythmic patterns, diatonic melodies and harmonies, and basic chromaticism. Upon completion, students should be able to utilize any solmization system while sight singing diatonic melodies with functional and non-functional chromaticism, fluently read music in multiple clefs in addition to treble and bass, identify modulations, perform complex rhythmic patterns in various meters, and dictate tonal melodies and harmonies including chromaticism.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS226 - Aural Skills IV

Overview

Subject code
MUS

Course Number
226

Description
This course provides advanced aural skills training in diatonicism and chromaticism. Emphasis is placed on the development of sight singing and ear training skills in chromatic melodies, chromatic harmonies, and complex rhythmic patterns. Upon completion, students should be able to utilize any solmization system while sight singing melodies containing significant chromaticism; fluently read music in multiple clefs, including treble, bass, alto, and tenor; perform and dictate rhythmic patterns in irregular and changing meters; and dictate diatonic and chromatic melodies and harmonic progressions.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS231 - Chorus III

Overview

Subject code
MUS

Course Number
231

Description
This course is a continuation of MUS 132. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS232 - Chorus IV

Overview

Subject code
MUS

Course Number
232

Description
This course is a continuation of MUS 231. Emphasis is placed on vocal techniques and the study of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS237 - Orchestra III

Overview

Subject code
MUS

Course Number
237

Description
This course is a continuation of MUS 138. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

CAA statement
This course has been approved for transfer under the CAA as a pre-major and/or elective course requirement. This course has been approved for transfer under the ICAA as a pre-major and/ or elective course requirement

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS238 - Orchestra IV

Overview

Subject code
MUS

Course Number
238

Description
This course is a continuation of MUS 237. Emphasis is placed on orchestral techniques and the study and performance of a variety of styles and periods of orchestral and string ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

CAA statement
This course has been approved for transfer under the CAA as a pre-major and/or elective course requirement. This course has been approved for transfer under the ICAA as a pre-major and/ or elective course requirement

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS241 - Ensemble III

Overview

Subject code
MUS

Course Number
241

Description
This course is a continuation of MUS 142. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS242 - Ensemble IV

Overview

Subject code
MUS

Course Number
242

Description
This course is a continuation of MUS 241. Emphasis is placed on the development of performance skills and the study of styles of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

MUS260 - Introduction to Music Education

Overview

Subject code
MUS

Course Number
260

Description
This course provides an introduction to the music education profession. Emphasis is placed on creating successful music learning environments and the role of the music educator. Upon completion, students should be able to demonstrate knowledge and skills related to the philosophy and methods of teaching music.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

MUS261 - Applied Music III

Overview

Subject code
MUS

Course Number
261

Description
This course is a continuation of MUS 162. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pr-emajor and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

MUS262 - Applied Music IV

Overview

Subject code
MUS

Course Number
262

Description
This course is a continuation of MUS 261. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
2

NET125 - Introduction to Networks

Overview

Subject code	Course Number	Department(s)
NET	125	Information Technology

Description

This course offers a detailed exploration of the architecture, structure, functions, components, and operating models of the Internet and other computer networks. Topics include the essentials of IP addressing, Ethernet basics, various media types, and network operations. Upon completion, students should be able to build/troubleshoot simple Local Area Networks (LANs), develop effective IP addressing schemes, and configure routers and switches.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

NET126 - Switching and Routing

Overview

Subject code	Course Number	Department(s)
NET	126	Information Technology

Description

This course covers the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts. Emphasis is placed on configuring and troubleshooting routers and switches for advanced functionality using security best practices and resolving common network issues utilizing both IPv4 and IPv6 protocols. Upon completion, students should be able to configure VLANs and Inter-VLAN routing applying security best practices, troubleshoot inter-VLAN routing on Layer 3 devices, configure redundancy on a switched network using STP and EtherChannel, configure WLANs using a WLC and L2 security best practices and configure IPv4 and IPv6 static routing on routers.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

NOS110 - Operating Systems Concepts

Overview

Subject code	Course Number	Department(s)
NOS	110	Information Technology

Description

This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is place on operating system concepts, management, maintenance, and resources required. Upon completion of this course, students will have an understanding of OS concepts, installation, management, maintenance, using a variety of operating systems.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

NOS120 - Linux Single User

Overview

Subject code	Course Number	Department(s)
NOS	120	Information Technology

Description

This course provides students with GUI and command line skills for using a Linux machine. Topics include Linux file system and access permissions, desktop or shell environments, command line editors, display servers, expression pattern matching, I/O redirection, and networking. Upon completion, students should be able to demonstrate competency in customizing a Linux system.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

NOS220 - Linux Administration I

Overview

Subject code	Course Number	Department(s)
NOS	220	Information Technology

Description

This course covers advanced skills needed to successfully administer a Linux system. Topics include installation, file system creation/maintenance, storage, network configuration, user interface configuration, and security. Upon completion, students should be able to perform administrative tasks on a Linux system in a network environment.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

NUR101 - Practical Nursing I

Overview

Subject code	Course Number	Department(s)
NUR	101	Practical Nursing

Description

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including assessment, clinical decision making, professional behaviors, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching/learning, safety, ethical principles, legal issues, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course.

Academic Level	Zip Code
Curriculum	28139

Credit Hours

Credit Hours Min:
11

NUR102 - Practical Nursing II

Overview

Subject code	Course Number	Department(s)
NUR	102	Practical Nursing

Description

This course is designed to further develop the concepts within the three domains of the individual, nursing, and healthcare. Emphasis is placed on the concepts within each domain including clinical decision making, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching and learning, accountability, safety, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course.

Academic Level	Zip Code
Curriculum	28139

Credit Hours

Credit Hours Min:
10

NUR103 - Practical Nursing III

Overview

Subject code	Course Number	Department(s)
NUR	103	Practical Nursing

Description

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on biophysical and psychosocial concepts, professional behaviors, healthcare systems, health policy, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide safe, quality, and individualized entry level nursing care.

Academic Level	Zip Code
Curriculum	28139

Credit Hours

Credit Hours Min:
9

NUR111 - Introduction to Health Concepts

Overview

Subject code	Course Number	Department(s)
NUR	111	Associate Degree Nursing

Description

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including medication administration, assessment, nutrition, ethics, interdisciplinary teams, informatics, evidence-based practice, individual-centered care, and quality improvement. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

Academic Level	Zip Code
Curriculum	28139

Credit Hours

Credit Hours Min:
8

NUR112 - Health-Illness Concepts

Overview

Subject code	Course Number	Department(s)
NUR	112	Associate Degree Nursing

Description

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of acid-base, metabolism, cellular regulation, oxygenation, infection, stress/coping, health-wellness-illness, communication, caring interventions, managing care, safety, quality improvement, and informatics. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

Academic Level	Zip Code
Curriculum	28139

Credit Hours

Credit Hours Min:
5

NUR113 - Family Health Concepts

Overview

Subject code	Course Number	Department(s)
NUR	113	Associate Degree Nursing

Description

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect, behaviors, development, family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

Academic Level	Zip Code
Curriculum	28139

Credit Hours

Credit Hours Min:
5

NUR114 - Holistic Health Concepts

Overview

Subject code	Course Number	Department(s)
NUR	114	Associate Degree Nursing

Description

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

Academic Level	Zip Code
Curriculum	28139

Credit Hours

Credit Hours Min:
5

NUR211 - Health Care Concepts

Overview

Subject code	Course Number	Department(s)
NUR	211	Associate Degree Nursing

Description

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, infection, immunity, mobility, comfort, behaviors, health-wellness-illness, clinical decision-making, caring interventions, managing care, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

Academic Level	Zip Code
Curriculum	28139

Credit Hours

Credit Hours Min:
5

NUR212 - Health System Concepts

Overview

Subject code	Course Number	Department(s)
NUR	212	Associate Degree Nursing

Description

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of grief/loss, violence, health-wellness-illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course

Academic Level	Zip Code
Curriculum	28139

Credit Hours

Credit Hours Min:
5

NUR213 - Complex Health Concepts

Overview

Subject code	Course Number	Department(s)
NUR	213	Associate Degree Nursing

Description

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry level nursing care.

Academic Level	Zip Code
Curriculum	28139

Credit Hours

Credit Hours Min:
10

NUR214 - Nursing Transition Concepts

Overview

Subject code	Course Number	Department(s)
NUR	214	Associate Degree Nursing

Description

This course is designed to introduce concepts within the three domains of the individual, healthcare, and nursing as the LPN transitions to the ADN role. Emphasis is placed on the concepts within each domain including evidenced-based practice, quality improvement, communication, safety, interdisciplinary team, clinical decision-making, informatics, assessment, caring, and health-wellness-illness. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

Academic Level	Zip Code
Curriculum	28139

Credit Hours

Credit Hours Min:
4

OST134 - Text Entry & Formatting

Overview

Subject code	Course Number	Department(s)
OST	134	Business Administration

Description

This course is designed to provide skills needed to increase speed, improve accuracy, and format documents. Topics include letters, memos, tables, and business reports. Upon completion, students should be able to produce documents and key timed writings at speeds commensurate with employability.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

OST136 - Word Processing

Overview

Subject code	Course Number	Department(s)
OST	136	Business Administration

Description

This course is designed to introduce word processing concepts and applications. Topics include preparation of a variety of documents and mastery of specialized software functions. Upon completion, students should be prepared to take a nationally accredited certification exam.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

OST148 - Medical Insurance and Billing

Overview

Subject code	Course Number	Department(s)
OST	148	Medical Office Administration

Description

This course introduces fundamentals of medical insurance and billing. Emphasis is placed on the medical billing cycle to include third party payers, coding concepts, and form preparation. Upon completion, students should be able to explain the life cycle of and accurately complete a medical insurance claim.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

OST149 - Medical Legal Issues

Overview

Subject code	Course Number	Department(s)
OST	149	Medical Office Administration

Description

This course introduces the complex legal, moral, and ethical issues involved in providing health-care services. Emphasis is placed on the legal requirements of medical practices; the relationship of physician, patient, and office personnel; professional liabilities; and medical practice liability. Upon completion, students should be able to demonstrate a working knowledge of current medical law and accepted ethical behavior.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

OST164 - Office Editing

Overview

Subject code	Course Number	Department(s)
OST	164	Business Administration

Description

This course provides an in-depth exploration of editing skills essential for the office. Emphasis is placed on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to proficiently compose and edit text and documents for the workplace.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

OST181 - Office Procedures

Overview

Subject code	Course Number	Department(s)
OST	181	Business Administration

Description

This course introduces the skills and procedures needed in today's office. Topics include effectively interacting with co-workers and the public, processing simple financial and informational documents, and performing functions typical of today's offices. Upon completion, students should be able to display skills and decision-making abilities essential for functioning in the total office context.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

OST243 - Medical Office Simulation

Overview

Subject code	Course Number	Department(s)
OST	243	Medical Office Administration

Description

This course introduces medical systems used to process information in the automated office. Topics include traditional and electronic information resources, managing health information, and the billing cycle. Upon completion, students should be able to use the computer accurately to schedule, bill, update, and make corrections.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

OST247 - Procedure Coding

Overview

Subject code	Course Number	Department(s)
OST	247	Medical Office Administration

Description

This course provides in-depth coverage of procedural coding. Emphasis is placed on CPT and HCPCS coding systems. Upon completion, students should be able to properly code procedures and services performed in a medical facility.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

OST248 - Diagnostic Coding

Overview

Subject code	Course Number	Department(s)
OST	248	Medical Office Administration

Description

This course provides an in-depth study of diagnostic coding. Emphasis is placed on ICD coding system. Upon completion, students should be able to properly code diagnoses in a medical facility.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

OST249 - Medical Coding Certification Preparation

Overview

Subject code	Course Number	Department(s)
OST	249	Medical Office Administration

Description

This course provides instruction that will prepare students to sit for a national coding certification exam. Topics include diagnostic and procedural coding. Upon completion, students should be able to sit for various medical coding certification exams.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

OST264 - Medical Auditing

Overview

Subject code	Course Number	Department(s)
OST	264	Medical Office Administration

Description

This course provides instruction on how to apply regulations and policies to perform medical record audits for provider services. Emphasis is placed on understanding the scope of an audit, statistical sampling methodologies, performing a medical record audit, and compiling data for reports to improve the revenue cycle for healthcare services. Upon completion, students should be able to perform a medical audit.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

OST288 - Medical Office Administration Capstone

Overview

Subject code	Course Number	Department(s)
OST	288	Business Administration

Description

This course is designed to be a capstone course for the medical office professional and provides a working knowledge of medical office procedures. Emphasis is placed on written and oral communication skills, practice management, electronic health records, medical office procedures, ethics, and professional development. Upon completion, students should be able to demonstrate the skills necessary to manage a medical office.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

PED110 - Fit and Well for Life

Overview

Subject code	Course Number	Department(s)
PED	110	Associate in Arts

Description

This course is designed to investigate and apply the basic concepts and principles of lifetime physical fitness and other health-related factors. Emphasis is placed on wellness through the study of nutrition, weight control, stress management, and consumer facts on exercise and fitness. Upon completion, students should be able to plan a personal, lifelong fitness program based on individual needs, abilities, and interests.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
2

PED113 - Aerobics I

Overview

Subject code	Course Number	Department(s)
PED	113	Associate in Arts

Description

This course introduces a program of cardiovascular fitness involving continuous, rhythmic exercise. Emphasis is placed on developing cardiovascular efficiency, strength, and flexibility and on safety precautions. Upon completion, students should be able to select and implement a rhythmic aerobic exercise program.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
1

PED117 - Weight Training I

Overview

Subject code	Course Number	Department(s)
PED	117	Associate in Arts

Description

This course introduces the basics of weight training. Emphasis is placed on developing muscular strength, muscular endurance, and muscle tone. Upon completion, students should be able to establish and implement a personal weight training program.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

PED120 - Walking for Fitness

Overview

Subject code	Course Number	Department(s)
PED	120	Associate in Arts

Description

This course introduces fitness through walking. Emphasis is placed on stretching, conditioning exercises, proper clothing, fluid needs, and injury prevention. Upon completion, students should be able to participate in a recreational walking program.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

PED130 - Tennis-Beginning

Overview

Subject code	Course Number	Department(s)
PED	130	Associate in Arts

Description

This course emphasizes the fundamentals of tennis. Topics include basic strokes, rules, etiquette, and court play. Upon completion, students should be able to play recreational tennis.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

PED137 - Badminton

Overview

Subject code	Course Number	Department(s)
PED	137	Associate in Arts

Description

This course covers the fundamentals of badminton. Emphasis is placed on the basics of serving, clears, drops, drives, smashes, and the rules and strategies of singles and doubles. Upon completion, students should be able to apply these skills in playing situations.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

PED143 - Volleyball-Beginning

Overview

Subject code	Course Number	Department(s)
PED	143	Associate in Arts

Description

This course covers the fundamentals of volleyball. Emphasis is placed on the basics of serving, passing, setting, spiking, blocking, and the rules and etiquette of volleyball. Upon completion, students should be able to participate in recreational volleyball.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

PED152 - Swimming-Beginning

Overview

Subject code	Course Number	Department(s)
PED	152	Associate in Arts

Description

This course is designed for non-swimmers and beginners. Emphasis is placed on developing confidence in the water, learning water safety, acquiring skills in floating, and learning elementary strokes. Upon completion, students should be able to demonstrate safety skills and be able to tread water, back float, and use the crawl stroke for 20 yards.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

PED153 - Swimming-Intermediate

Overview

Subject code	Course Number	Department(s)
PED	153	Associate in Arts

Description

This course is designed for those who have mastered basic swimming skills. Emphasis is placed on refining basic skills and learning new swim strokes. Upon completion, students should be able to demonstrate the four basic strokes, the scissors kick, the underwater swim, and other related skills.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

PED155 - Water Aerobics

Overview

Subject code	Course Number	Department(s)
PED	155	Associate in Arts

Description

This course introduces rhythmic aerobic activities performed in water. Emphasis is placed on increasing cardiovascular fitness levels, muscular strength, muscular endurance, and flexibility. Upon completion, students should be able to participate in an individually-paced exercise program.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

PED219 - Disc Golf

Overview

Subject code	Course Number	Department(s)
PED	219	Associate in Arts

Description

This course introduces the fundamentals of disc golf. Emphasis is placed on basic throwing techniques, putting, distance driving, scoring, and single and doubles play. Upon completion, students should be able to perform the skills required in playing situations.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

PFT111 - Piping & Valves

Overview

Subject code	Course Number	Department(s)
PFT	111	Industrial Systems Technology

Description

This course introduces the terminology, uses, types, and components of metallic and non-metallic industrial piping systems. Topics include identification and application of valves and fittings, joining techniques, drawing interpretation, and the safe installation of piping systems. Upon completion, students should be able to select the proper materials and equipment to safely construct basic industrial piping systems in accordance with design drawing.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

PHI215 - Philosophical Issues

Overview

Subject code	Course Number	Department(s)
PHI	215	Associate in Arts

Description

This course introduces fundamental issues in philosophy considering the views of classical and contemporary philosophers. Emphasis is placed on knowledge and belief, appearance and reality, determinism and free will, faith and reason, and justice and inequality. Upon completion, students should be able to identify, analyze, and critically evaluate the philosophical components of an issue.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

PHI240 - Introduction to Ethics

Overview

Subject code	Course Number	Department(s)
PHI	240	Associate in Arts

Description

This course introduces theories about the nature and foundations of moral judgments and applications to contemporary moral issues. Emphasis is placed on moral theories such as consequentialism, deontology, and virtue ethics. Upon completion, students should be able to apply various ethical theories to moral issues such as abortion, capital punishment, poverty, war, terrorism, the treatment of animals, and issues arising from new technologies.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

PHY110 - Conceptual Physics

Overview

Subject code	Course Number	Department(s)
PHY	110	Associate in Science

Description

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

PHY110A - Conceptual Physics Lab

Overview

Subject code	Course Number	Department(s)
PHY	110A	Associate in Science

Description

This course is a laboratory for PHY 110. Emphasis is placed on laboratory experiences that enhance materials presented in PHY 110. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in PHY 110.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
1

PHY131 - Physics-Mechanics

Overview

Subject code	Course Number	Department(s)
PHY	131	Electronics Engineering Technology

Description

This algebra/trigonometry-based course introduces fundamental physical concepts as applied to engineering technology fields. Topics include systems of units, problem-solving methods, graphical analysis, vectors, motion, forces, Newton's laws of motion, work, energy, power, momentum, and properties of matter. Upon completion, students should be able to apply the principles studied to applications in engineering technology fields.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

PHY132 - Physics-Electricity & Magnetism

Overview

Subject code	Course Number	Department(s)
PHY	132	Electronics Engineering Technology

Description

This algebra/trigonometry-based course is a study of fundamental physical concepts as applied to engineering technology fields. Topics include systems of units, problem-solving methods, graphical analysis, waves, electricity, magnetism, circuits, transformers, motors, and generators. Upon completion, students should be able to apply the principles studied to applications in engineering technology fields.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

PHY151 - College Physics I

Overview

Subject code	Course Number	Department(s)
PHY	151	Associate in Science

Description

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vectors, linear kinematics and dynamics, energy, power, momentum, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

PHY152 - College Physics II

Overview

Subject code	Course Number	Department(s)
PHY	152	Associate in Science

Description

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

PHY251 - General Physics I

Overview

Subject code	Course Number	Department(s)
PHY	251	Associate in Science

Description

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vector operations, linear kinematics and dynamics, energy, power, momentum, rotational mechanics, periodic motion, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

PHY252 - General Physics II

Overview

Subject code	Course Number	Department(s)
PHY	252	Associate in Science

Description

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
4

PLU111 - Introduction to Basic Plumbing

Overview

Subject code	Course Number	Department(s)
PLU	111	Building Construction Technology

Description

This course introduces basic plumbing tools, materials, and fixtures. Topics include standard tools, materials, and fixtures used in basic plumbing systems and other related topics. Upon completion, students should be able to demonstrate an understanding of a basic plumbing system.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

PLU115 - Basic Plumbing

Overview

Subject code	Course Number	Department(s)
PLU	115	Building Construction Technology

Description

This course covers the basic installation and maintenance of plumbing systems and components. Topics include safe use of tools, implementation of standard practices, and installation/maintenance of piping, fittings, valves, appliances and fixtures used in plumbed systems. Upon completion, students should be able to install/maintain basic plumbing systems, components, appliances, and fixtures through appropriate use of plumbing tools and standard practices.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

PLU211 - Commercial/Ind Plumbing

Overview

Subject code
PLU

Course Number
211

Department(s)
Building Construction Technology

Description
This course covers the installation of various commercial and industrial piping. Topics include piping in steam, gas, air, fire sprinklers, and other related topics. Upon completion, students should be able to select and install various piping systems for a variety of applications.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

POL120 - American Government

Overview

Subject code
POL

Course Number
120

Department(s)
Associate in Arts

Description
This course is a study of the origins, development, structure, and functions of American government. Topics include the constitutional framework, federalism, the three branches of government including the bureaucracy, civil rights and liberties, political participation and behavior, and policy process. Upon completion, students should be able to demonstrate an understanding of the basic concepts and participatory processes of the American political system.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

POL220 - International Relations

Overview

Subject code
POL

Course Number
220

Department(s)
Associate in Arts

Description
This course provides a study of the effects of ideologies, trade, armaments, and alliances on relations among nation-states. Emphasis is placed on regional and global cooperation and conflict, economic development, trade, non-governmental organizations, and international institutions such as the World Court and UN. Upon completion, students should be able to identify and discuss major international relationships, institutions, and problems.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

PSY150 - General Psychology

Overview

Subject code
PSY

Course Number
150

Department(s)
Associate in Arts

Description
This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology.

CAA statement
This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

PSY231 - Forensic Psychology

Overview

Subject code	Course Number	Department(s)
PSY	231	Associate in Arts

Description

This course introduces students to concepts which unite psychology and the legal system. Topics include defining competency, insanity, involuntary commitment, as well as introducing forensic assessment techniques, such as interviewing process, specialized assessments, and collecting collateral information. Upon completion, students should be able to demonstrate knowledge in areas of forensic psychology: risk assessment, criminal competencies, insanity, psychopathology, and mentally disordered offenders.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

PSY237 - Social Psychology

Overview

Subject code	Course Number	Department(s)
PSY	237	Associate in Arts

Description

This course introduces the study of individual behavior within social contexts. Topics include affiliation, attitude formation and change, conformity, altruism, aggression, attribution, interpersonal attraction, and group behavior. Upon completion, students should be able to demonstrate an understanding of the basic principles of social influences on behavior.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

PSY241 - Developmental Psychology

Overview

Subject code	Course Number	Department(s)
PSY	241	Associate in Arts

Description

This course is a study of human growth and development. Emphasis is placed on major theories and perspectives as they relate to the physical, cognitive, and psychosocial aspects of development from conception to death. Upon completion, students should be able to demonstrate knowledge of development across the life span.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

PSY245 - Child Development II

Overview

Subject code	Course Number	Department(s)
PSY	245	Associate in Arts

Description

This course examines the growth and development of children during early and middle childhood. Emphasis is placed on factors influencing physical, cognitive, and psychosocial growth and change. Upon completion, students should be able to demonstrate an understanding of early and middle child development.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

PSY281 - Abnormal Psychology

Overview

Subject code	Course Number	Department(s)
PSY	281	Associate in Arts

Description

This course provides an examination of the various psychological disorders, as well as theoretical, clinical, and experimental perspectives of the study of psychopathology. Emphasis is placed on terminology, classification, etiology, assessment, and treatment of the major disorders. Upon completion, students should be able to distinguish between normal and abnormal behavior patterns as well as demonstrate knowledge of etiology, symptoms, and therapeutic techniques.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

REL110 - World Religions

Overview

Subject code	Course Number	Department(s)
REL	110	Associate in Arts

Description

This course introduces the world's major religious traditions. Topics include Primal religions, Hinduism, Buddhism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

REL111 - Eastern Religions

Overview

Subject code	Course Number	Department(s)
REL	111	Associate in Arts

Description

This course introduces the major Asian religious traditions. Topics include Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

REL211 - Introduction to Old Testament

Overview

Subject code	Course Number	Department(s)
REL	211	Associate in Arts

Description

This course is a survey of the literature of the Hebrews with readings from the law, prophets, and other writings. Emphasis is placed on the use of literary, historical, archeological, and cultural analysis. Upon completion, students should be able to use the tools of critical analysis to read and understand Old Testament literature.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

REL212 - Introduction to New Testament

Overview

Subject code	Course Number	Department(s)
REL	212	Associate in Arts

Description

This course is a survey of the literature of first-century Christianity with readings from the gospels, Acts, and the Pauline and pastoral letters. Topics include the literary structure, audience, and religious perspective of the writings, as well as the historical and cultural context of the early Christian community. Upon completion, students should be able to use the tools of critical analysis to read and understand New Testament literature.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

SAB110 - Intro to Addiction & Recovery Studies

Overview

Subject code	Course Number	Department(s)
SAB	110	Social and Human Services

Description

This course provides an overview of the core concepts in addiction and recovery. Topics include the history of substance use, effects on society members, treatment of addiction, and preventive measures. Upon completion, students should be able to demonstrate knowledge of the origins of substance use, addiction, prevention, treatment, and recovery.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

SAB120 - Intake and Assessment

Overview

Subject code	Course Number	Department(s)
SAB	120	Social and Human Services

Description

This course covers processes for rapport building and procedures used to identify and evaluate individuals' strengths and weaknesses. Topics include diagnostic evaluation and placement, effective interviewing and communication techniques, and use of assessment tools. Upon completion, students should be able to establish rapport with individuals, recognize disorders, and obtain information for referrals and placement.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

SAB135 - Addictive Process

Overview

Subject code	Course Number	Department(s)
SAB	135	Social and Human Services

Description

This course covers the physical, emotional, psychological, and cultural aspects of the addictive process. Emphasis is placed on disorders related to addictions to alcohol, drugs, food, sex, work, gambling, internet, and relationships. Upon completion, students should be able to identify the effects, prevention strategies, and treatment methods associated with addictive disorders.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

SAB210 - Addiction & Recovery Counseling

Overview

Subject code	Course Number
SAB	210

Description

This course provides theory and skills acquisition by utilizing intervention strategies designed to obtain therapeutic information, support recovery, and prevent relapse. Topics include counseling individuals and dysfunctional families, screening instruments, counseling techniques and approaches, recovery and relapse, and special populations. Upon completion, students should be able to discuss issues critical to recovery, identify intervention models, and initiate a procedure culminating in cognitive/behavioral change.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

SAB240 - Diversity, Ethics, & Trends in Addiction & Recovery

Overview

Subject code	Course Number	Department(s)
SAB	240	Social and Human Services

Description

This course introduces systems of diversity, ethics, and trends in addiction and recovery. Topics include confidentiality, assessment of personal values, professional responsibilities, competencies, and ethics relative to multicultural service provision. Upon completion, students should be able to apply and discuss multiple diversity and ethical scenarios applicable to addiction and recovery services.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

SEC110 - Security Concepts

Overview

Subject code	Course Number	Department(s)
SEC	110	Information Technology

Description

This course introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls. Topics include the historical view of networking and security, security issues, trends, security resources, and the role of policy, people, and processes in information security. Upon completion, students should be able to identify information security risks, create an information security policy, and identify processes to implement and enforce policy.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

SEC160 - Security Administration I

Overview

Subject code	Course Number	Department(s)
SEC	160	Information Technology

Description

This course provides an overview of security administration with an emphasis on designing secure network architectures. Topics include networking technologies, TCP/IP fundamentals, network protocols, traffic analysis, monitoring strategies, and established security best practices. Upon completion, students should be able to use advanced network analysis tools to monitor network traffic and develop security measures to safeguard against various threats.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

SEC175 - Perimeter Defense

Overview

Subject code	Course Number	Department(s)
SEC	175	Information Technology

Description

This course introduces the principles of securing networks using routers and firewalls. Topics include networking protocols, threat mitigation, firewall configuration, authentication, authorization, intrusion detection, encryption, IPSec, VPNs, and remote access technologies. Upon completion, students should be able to secure internal networks using router and firewall technologies.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

SEC210 - Intrusion Detection

Overview

Subject code	Course Number	Department(s)
SEC	210	Information Technology

Description

This course introduces the student to intrusion detection methods in use today. Topics include the types of intrusion detection products, traffic analysis, and planning and placement of intrusion detection solutions. Upon completion, students should be able to plan and implement intrusion detection solution for networks and host-based systems.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

SEC285 - Systems Security Project

Overview

Subject code	Course Number	Department(s)
SEC	285	Information Technology

Description

This course provides students with the opportunity to apply their knowledge and skills from the systems security program. Topics include crafting and implementing effective security policies, planning processes, defining procedures, ensuring business continuity, achieving compliance, conducting audits, performing security tests, and designing secure system architectures. Upon completion, students should be able to design and implement comprehensive security solutions.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

SGD112 - SGD Design I

Overview

Subject code	Course Number	Department(s)
SGD	112	Information Technology

Description

This course introduces the fundamentals of simulation and game design. Topics include industry standards and design elements for simulation and games. Upon completion, students should be able to design simple simulations and/or games.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

SGD113 - SGD Programming I

Overview

Subject code	Course Number	Department(s)
SGD	113	Information Technology

Description

This course introduces the fundamentals of programming languages and tools employed in simulation and game development. Emphasis is placed on programming concepts used to create simulations and games. Upon completion, students should be able to program simple games and/or simulations.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

SOC210 - Introduction to Sociology

Overview

Subject code	Course Number	Department(s)
SOC	210	Associate in Arts

Description

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

SOC213 - Sociology of the Family

Overview

Subject code	Course Number	Department(s)
SOC	213	Associate in Arts

Description

This course covers the institution of the family and other intimate relationships. Emphasis is placed on mate selection, gender roles, sexuality, communication, power and conflict, parenthood, diverse lifestyles, divorce and remarriage, and economic issues. Upon completion, students should be able to analyze the family as a social institution and the social forces which influence its development and change.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

SOC220 - Social Problems

Overview

Subject code	Course Number	Department(s)
SOC	220	Associate in Arts

Description

This course provides an in-depth study of current social problems. Emphasis is placed on causes, consequences, and possible solutions to problems associated with families, schools, workplaces, communities, and the environment. Upon completion, students should be able to recognize, define, analyze, and propose solutions to these problems.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

SOC225 - Social Diversity

Overview

Subject code	Course Number	Department(s)
SOC	225	Associate in Arts

Description

This course provides a comparison of diverse roles, interests, opportunities, contributions, and experiences in social life. Topics include race, ethnicity, gender, sexual orientation, class, and religion. Upon completion, students should be able to analyze how cultural and ethnic differences evolve and how they affect personality development, values, and tolerance.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

SPA111 - Elementary Spanish I

Overview

Subject code	Course Number	Department(s)
SPA	111	Associate in Arts

Description

This course introduces the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness.

CAA statement

This course has been approved to satisfy the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement general education core requirement in humanities/ fine arts for AA and AS only, can not be used to satisfy the Humanities requirement for AAS degrees.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

SPA112 - Elementary Spanish II

Overview

Subject code
SPA

Course Number
112

Department(s)
Associate in Arts

Description

This course is a continuation of SPA 111 focusing on the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate further cultural awareness.

CAA statement

This course has been approved to satisfy the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement general education core requirement in humanities/ fine arts for AA and AS only, can not be used to satisfy the Humanities requirement for AAS degrees.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

SPA120 - Spanish for the Workplace

Overview

Subject code
SPA

Course Number
120

Department(s)
Associate in Arts

Description

This course offers applied Spanish for the workplace to facilitate basic communication with people whose native language is Spanish. Emphasis is placed on oral communication and career-specific vocabulary that targets health, business, and/or public service professions. Upon completion, students should be able to communicate at a functional level with native speakers and demonstrate cultural sensitivity.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
3

SPA181 - Spanish Lab 1

Overview

Subject code	Course Number	Department(s)
SPA	181	Associate in Arts

Description

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
1

SPA182 - Spanish Lab 2

Overview

Subject code	Course Number	Department(s)
SPA	182	Associate in Arts

Description

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate cultural awareness.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
1

SPA211 - Intermediate Spanish I

Overview

Subject code	Course Number	Department(s)
SPA	211	Associate in Arts

Description

This course provides a review and expansion of the essential skills of the Spanish language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future.

CAA statement

This course has been approved to satisfy the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement general education core requirement in humanities/ fine arts for AA and AS only, can not be used to satisfy the Humanities requirement for AAS degrees.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

SPA212 - Intermediate Spanish II

Overview

Subject code	Course Number	Department(s)
SPA	212	Associate in Arts

Description

This course provides a continuation of SPA 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication.

CAA statement

This course has been approved to satisfy the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement general education core requirement in humanities/ fine arts for AA and AS only, can not be used to satisfy the Humanities requirement for AAS degrees.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

SPA281 - Spanish Lab 3

Overview

Subject code	Course Number	Department(s)
SPA	281	Associate in Arts

Description

This course provides an opportunity to enhance the review and expansion of the essential skills of the Spanish language. Emphasis is placed on the study of authentic and representative literary and cultural texts through the use of various supplementary learning media and materials. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
1

SPA282 - Spanish Lab 4

Overview

Subject code	Course Number	Department(s)
SPA	282	Associate in Arts

Description

This course provides an opportunity to enhance the review and expansion of the essential skills of the Spanish language. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts through the use of various supplementary learning media and materials. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication.

CAA statement

This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a pre-major and/or elective course requirement.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
1

SRV110 - Surveying I

Overview

Subject code
SRV

Course Number
110

Description
This course introduces the theory and practice of plane surveying. Topics include the precise measurement of distances, angles, and elevations; bearing, azimuth and traverse computations; topography and mapping. Upon completion, students should be able to use/care for surveying equipment, collect field survey data, perform traverse computations and create a contour map.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
4

SRV111 - Surveying II

Overview

Subject code
SRV

Course Number
111

Description
This course introduces route surveying and roadway planning and layout. Topics include simple, compound, reverse, spiral, and vertical curves; geometric design and layout; planning of cross-section and grade line; drainage; earthwork calculations; and mass diagrams. Upon completion, students should be able to calculate and lay out highway curves; prepare roadway plans, profiles, and sections; and perform slope staking.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
4

SST110 - Introduction to Sustainability

Overview

Subject code	Course Number	Department(s)
SST	110	Building Construction Technology

Description

This course introduces sustainability issues and individual contributions toward environmental sustainability. Topics include management processes needed to maximize renewable/non-renewable energy resources, economics of sustainability, and reduction of environmental impacts. Upon completion, students should be able to discuss sustainability practices and demonstrate an understanding of their effectiveness and impacts.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

SST120 - Energy Use Analysis

Overview

Subject code	Course Number	Department(s)
SST	120	Building Construction Technology

Description

This course introduces the principles of analyzing energy use, energy auditing tools and techniques, conservation techniques, and calculating energy savings. Topics include building system control theory, calibrating digital controls, energy loss calculations, and applicable conservation techniques. Upon completion, students should be able to demonstrate an understanding of energy use, audits, and controls in the analysis of energy consumption.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

SST140 - Green Building and Design Concepts

Overview

Subject code	Course Number	Department(s)
SST	140	Building Construction Technology

Description

This course is designed to introduce the student to sustainable building design and construction principles and practices. Topics include sustainable building rating systems and certifications, energy efficiency, indoor environmental quality, sustainable building materials and water use. Upon completion, students should be able to identify the principles and practices of sustainable building design and construction.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

WBL110 - World of Work

Overview

Subject code	Course Number	Department(s)
WBL	110	Business Administration

Description

This course covers basic knowledge necessary for gaining and maintaining employment. Topics include job search skills, work ethic, meeting employer expectations, workplace safety, and human relations. Upon completion, students should be able to successfully make the transition from school to work.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
1

WBL111 - Work-Based Learning I

Overview

Subject code
WBL

Course Number
111

Department(s)
Agribusiness Technology, Graphic Design, Audio and Video Production Technology

Description
This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

WBL112 - Work-Based Learning I

Overview

Subject code
WBL

Course Number
112

Department(s)
Social and Human Services

Description
This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
2

WBL113 - Work-Based Learning I

Overview

Subject code	Course Number	Department(s)
WBL	113	Social and Human Services

Description

This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

WBL115 - Work-Based Learning Seminar I

Overview

Subject code	Course Number	Department(s)
WBL	115	Cosmetology

Description

This course description may be written by the individual colleges.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
1

WBL120 - Career Readiness, Exploration, and Employability

Overview

Subject code
WBL

Course Number
120

Department(s)
341580f9-1365-43c5-bff7-c79210aa285b

Description
This course is designed to familiarize individuals with fundamental skill sets that are critical for successful employment including locating and using workplace information, conveying professionalism, communicating effectively, promoting teamwork, thinking critically, and providing individuals with career exploration experiences. Topics include career readiness credential preparation, career exploration, and employability skillsets. Upon completion, students should be able to demonstrate the ability to locate and use information, interpret graphic information, apply mathematics to work-related situations, use key employability skills, and match education with careers in business and industry.

Academic Level
Curriculum

Credit Hours

Credit Hours Min:
3

WBL121 - Work-Based Learning II

Overview

Subject code
WBL

Course Number
121

Department(s)
Graphic Design

Description
This course provides a work-based learning experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

Academic Level
Curriculum

Zip Code
28160

Credit Hours

Credit Hours Min:
1

WEB115 - Web Markup and Scripting

Overview

Subject code	Course Number	Department(s)
WEB	115	Information Technology

Description

This course introduces Worldwide Web Consortium (W3C) Internet programming using JavaScript. Topics include basic syntax, object-oriented programming, functions, variables, events, arrays, validation, accessibility, and web standards. Upon completion, students should be able to write, debug, maintain well-formed and well documented interactive web content using JavaScript code.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

WEB140 - Web Development Tools

Overview

Subject code	Course Number	Department(s)
WEB	140	Information Technology

Description

This course provides an introduction to web development tools.Topics include creating websites using web development tools and web standards. Upon completion, students should be able to create small web sites and upload files to a web server.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

WEB182 - PHP Programming

Overview

Subject code	Course Number	Department(s)
WEB	182	Information Technology

Description

This course introduces students to the server-side, HTML-embedded scripting language PHP. Emphasis is placed on programming techniques required to create dynamic web pages using PHP scripting language features. Upon completion, students should be able to design, code, test, debug, and create a dynamic web site using the PHP scripting language.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

WEB210 - Web Design

Overview

Subject code	Course Number	Department(s)
WEB	210	Information Technology

Description

This course introduces intermediate to advanced web design techniques. Topics include customer expectations, advanced markup language, multimedia technologies, usability and accessibility practices, and techniques for the evaluation of web design. Upon completion, students should be able to employ advanced design techniques to create high impact and highly functional web sites.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

WEB250 - Database Driven Websites

Overview

Subject code	Course Number	Department(s)
WEB	250	Information Technology

Description

This course introduces dynamic (database-driven) website development. Topics include the use of basic database CRUD statements (create, read, update and delete) incorporated into web applications, as well as in software architecture principles. Upon completion, students should be able to design and develop database driven web applications according to industry standards.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
3

WEB285 - Emerging Web Technologies

Overview

Subject code	Course Number	Department(s)
WEB	285	Information Technology

Description

This course will explore, discuss, and research emerging technologies in the web arena. Emphasis is placed on exposure to up-and-coming technologies relating to the web, providing hands-on experience, and discussion of practical implications of these emerging fields. Upon completion, students should be able to articulate issues relating to these technologies.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

WLD110 - Cutting Processes

Overview

Subject code	Course Number	Department(s)
WLD	110	Welding Technology

Description

This course introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thickness.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

WLD112 - Basic Welding Processes

Overview

Subject code	Course Number	Department(s)
WLD	112	Welding Technology

Description

This course introduces basic welding and cutting. Emphasis is placed on beads applied with gases, mild steel fillers, and electrodes and the capillary action of solder. Upon completion, students should be able to set up welding and oxy-fuel equipment and perform welding, brazing, and soldering processes.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

WLD115 - SMAW (Stick) Plate

Overview

Subject code	Course Number	Department(s)
WLD	115	Welding Technology

Description

This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
5

WLD116 - SMAW (stick) Plate/ Pipe

Overview

Subject code	Course Number	Department(s)
WLD	116	Welding Technology

Description

This course is designed to enhance skills with the shielded metal arc (stick) welding process. Emphasis is placed on advancing manipulative skills with SMAW electrodes on varying joint geometry. Upon completion, students should be able to perform groove welds on carbon steel with prescribed electrodes in the flat, horizontal, vertical, and overhead positions.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

WLD117 - Industrial SMAW

Overview

Subject code	Course Number	Department(s)
WLD	117	Welding Technology

Description

This course introduces the SMAW (stick) process for joining carbon steel components for industrial applications. Topics include padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, student should be able to safely perform SMAW fillet and groove welds on carbon steel plate with prescribed electrodes.

Academic Level

Curriculum

Zip Code

28160

Credit Hours

Credit Hours Min:
3

WLD121 - GMAW (MIG) FCAW/Plate

Overview

Subject code	Course Number	Department(s)
WLD	121	Welding Technology

Description

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment set up and fillet and groove welds with emphasis on the application of proper GMAW and FCAW consumables on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed filler materials in the flat, horizontal, and overhead positions.

Academic Level

Curriculum

Credit Hours

Credit Hours Min:
4

WLD122 - GMAW (MIG) Plate/ Pipe

Overview

Subject code	Course Number	Department(s)
WLD	122	Welding Technology

Description

This course is designed to enhance skills with the gas metal arc (MIG) welding process. Emphasis is placed on advancing skills with the GMAW process making groove welds on carbon steel plate and pipe in various positions. Upon completion, students should be able to perform groove welds with prescribed electrodes on various joint geometry.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

WLD131 - GTAW (TIG) Plate

Overview

Subject code	Course Number	Department(s)
WLD	131	Welding Technology

Description

This course introduces the gas tungsten arc (TIG) welding process. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques. Upon completion, students should be able to perform GTAW fillet and groove welds with various electrodes and filler materials.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

WLD132 - GTAW (TIG) Plate/ Pipe

Overview

Subject code	Course Number	Department(s)
WLD	132	Welding Technology

Description

This course is designed to enhance skills with the gas tungsten arc (TIG) welding process. Topics include setup, joint preparation, and electrode selection with emphasis on manipulative skills in all welding positions on plate and pipe. Upon completion, students should be able to perform GTAW welds with prescribed electrodes and filler materials on various joint geometry.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

WLD141 - Symbols and Specifications

Overview

Subject code	Course Number	Department(s)
WLD	141	Welding Technology

Description

This course introduces the basic symbols and specifications used in welding. Emphasis is placed on interpretation of lines, notes, welding symbols, and specifications. Upon completion, students should be able to read and interpret symbols and specifications commonly used in welding.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

WLD143 - Welding Metallurgy

Overview

Subject code	Course Number	Department(s)
WLD	143	Welding Technology

Description

This course introduces the concepts of welding metallurgy. Emphasis is placed on basic metallurgy, effects of welding on various metals, and metal classification and identification. Upon completion, students should be able to understand basic metallurgy, materials designation, and classification systems used in welding.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

WLD151 - Fabrication I

Overview

Subject code	Course Number	Department(s)
WLD	151	Welding Technology

Description

This course introduces the basic principles of fabrication. Emphasis is placed on safety, measurement, layout techniques, cutting, joining techniques, and the use of fabrication tools and equipment. Upon completion, students should be able to perform layout activities and operate various fabrication and material handling equipment.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

WLD215 - SMAW (stick) Pipe

Overview

Subject code	Course Number	Department(s)
WLD	215	Welding Technology

Description

This course covers the knowledge and skills that apply to welding pipe. Topics include pipe positions, joint geometry, and preparation with emphasis placed on bead application, profile, and discontinuities. Upon completion, students should be able to perform SMAW welds to applicable codes on carbon steel pipe with prescribed electrodes in various positions.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
4

WLD231 - GTAW (TIG) Pipe

Overview

Subject code	Course Number	Department(s)
WLD	231	Welding Technology

Description

This course covers gas tungsten arc welding on pipe. Topics include joint preparation and fit up with emphasis placed on safety, GTAW welding technique, bead application, and joint geometry. Upon completion, students should be able to perform GTAW welds to applicable codes on pipe with prescribed electrodes and filler materials in various pipe positions.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

WLD261 - Certification Practices

Overview

Subject code	Course Number	Department(s)
WLD	261	Welding Technology

Description

This course covers certification requirements for industrial welding processes. Topics include techniques and certification requirements for prequalified joint geometry. Upon completion, students should be able to perform welds on carbon steel plate and/or pipe according to applicable codes.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
2

WLD262 - Inspection & Testing

Overview

Subject code	Course Number	Department(s)
WLD	262	Welding Technology

Description

This course introduces destructive and non-destructive testing methods. Emphasis is placed on safety, types and methods of testing, and the use of testing equipment and materials. Upon completion, students should be able to understand and/or perform a variety of destructive and non-destructive testing processes.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3

WOL110 - Basic Construction Skills

Overview

Subject code	Course Number	Department(s)
WOL	110	Building Construction Technology

Description

This course introduces the student to basic safety, tools, and skills commonly found in the construction related trades. Topics include safety, basic math, blueprints, hand and power tools, and rigging. Upon completion, students should have successfully completed the Core Curricula as identified by the National center for Construction Education and Research.

Academic Level	Zip Code
Curriculum	28160

Credit Hours

Credit Hours Min:
3